

SPECIAL PRESENTATION to SHAREHOLDERS

T.J. Rodgers Executive Chairman January 3, 2023



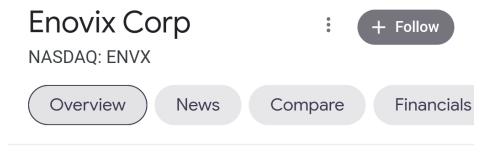
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Q3 Shareholder Letter:

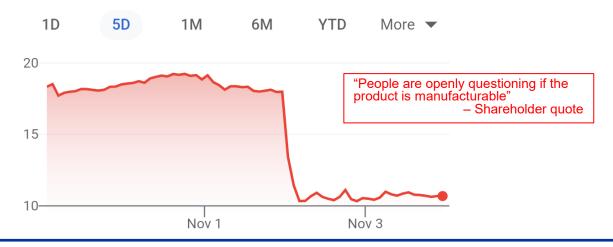
"We expect Fab-1 improvement activities to extend into 2023, but at a slower rate given the decision to redirect resources to Gen2. Given this, we expect to exit 2023 at a run rate of under one million battery cells produced from the Gen1 equipment at Fab-1. There is opportunity for significant outperformance dependent on the timing of the completion of ongoing Fab-1 improvement projects..."

What? Inglés, Por Favor

3

10.74 USD -7.60 (-41.44%) ↓ past 5 days

Closed: Nov 3, 7:58 PM EDT • Disclaimer After hours 10.74 0.00 (0.00%)



Memorandum

For Internal Distribution Only

To: T.J. Rodgers

From: Charlie Anderson

Date: 12/18/22

Memo #: CLA-008

Subject: Shareholder Feedback, Q422

The purpose of this memo is to capture shareholder feedback gathered since Enovix reported Q322 financial results on 11/1/22.

Top 10 Institutional Shareholder (2M+ shares)

"People are openly questioning if the product is manufacturable."

"We're lucky to be at \$10. Revenue in 2023 was supposed to be \$176 million. Now it's \$8 million."

"When you can't name where Fab-2 is going to be it appears that you have no plan."

"This should be like a biotech. There's a set schedule that everyone can understand with identifiable milestones and you can update us on the milestones as they are met or not met."

Top 30 Institutional Shareholder (500K+ shares)

"The problem with your message is that it's 'we don't know how to walk, but trust us we can run."

2XXXXX Rev Z Memorandum	This document is confidential and proprietary to Enovix.	
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# EUGVIX

### T.J. Rodgers Appointed Enovix Executive Chairman

FREMONT, <u>Calif, Nov. 7, 2022</u> — Enovix Corporation ("Enovix") (Nasdaq: ENVX), the leader in the design and manufacture of next generation 3D Silicon[™] Lithium-ion batteries, today announced that T.J. Rodgers has been appointed Executive Chairman, effective immediately. Rodgers holds 21.4 million shares of Enovix and was a buyer (\$3.5 million) in May when the stock dropped into the \$8.85 range.

Rodgers said, "Our board has by design several successful operating executives, who are committed to spend whatever time is required at Enovix to ensure the Company's operational success. We are silicon and Moore's Law operations people and comprehend the sea-change opportunity Enovix and its technology offer.

We are going to infuse Enovix with a silicon-industry mindset.



# EUGVIX

### T.J. Rodgers Appointed Enovix Executive Chairman

**Problem 1: The lack of clear and transparent investor communications**. I have worked with the Enovix team for ten years. It has always been honest. Yet, we must improve the clarity of our communications.

**Problem 2: The delay and projected underperformance of Fab-1**. We have poorly communicated on the status of Fab-1. I have heard from many investors that the delay and projected underperformance of Fab-1 must be the result of some catastrophic technology problem. For the record: Fab-1 is going to work and ship a lot of batteries to our customers – period.

**Problem 3: The delay of the Gen2 autoline, the Enovix "copy exact" engine for economic scaling**. An astute investor tracked me down on my car phone just before the Enovix board meeting last Friday. His question was, 'What's holding up the Gen2 line?' My answer was, 'T.J. Rodgers.'





### T.J. Rodgers Appointed Enovix Executive Chairman

Rodgers concluded, "We have \$349 million of your dollars left and that money will produce world-record batteries in Fab-1 and create the first Gen2 line.

By the way, the next battery shipped from Fab-1 will be serial number 4,163 (with zero returns), and I am proud of that."

That's the first time we ever said how many cells we have shipped! Why?

The cumulative number is now 8,812 shipped (Q4) and we expect to at least double our shipments in every quarter of 2023.





# SPAC Investor Presentation November 30, 2020

Rev. 9 12/2/20

The crash to \$10.74 is our fault, too. We control the board. Our SPAC sold stock at \$10, and although it's still up, investors are unhappy for good reasons.

### Our SPAC bragged about Enphase Reward So Far >100:1



#### Market Summary > Enphase Energy Inc NASDAQ: ENPH

### 139.07 USD +3.05 (2.24%) +

Closed: Nov 25, 6:35 PM EST · Disclaimer After hours 139.07 0.00 (0.00%)

1 day	5 days	1 month	6 months	YTD	1 year	5 years	Max
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### We bragged about the Cypress chip autolines Cypress Autoline 2000 – TJR's Personal Project



TJR's personal project Line 1: 3,600 UPH E Line 10: 10,000 UPH

PPENHEIMER

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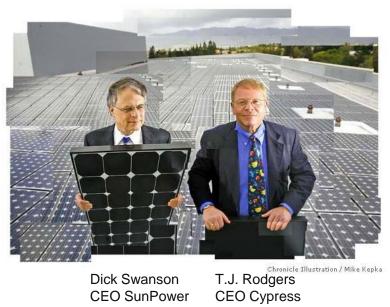
**O**PPENHEIMER

Invest in entrepreneurs...

### SunPower had a great idea and strategy, but cash was running short – until it received a \$750,000 personal check from someone who saw the light

#### Tom Abate, Chronicle Staff Writer

April 9, 2007 | Updated: Jan. 18, 2012 3:43 a.m.





### And the SunPower Autoline: 5 months install-to-silicon; 11 months 10% to 90% yield Autoline: Continuous River of Silicon



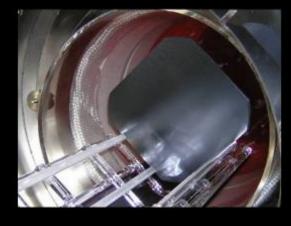
And about the complexity of the SunPower Autoline Rodgers Silicon Valley Acquisition Corp.



# SUNPOWER

### SPUTTER: AL/TiW/Cu

### DIFFUSION TUBE





CYPRESS BASIC TRAINING 05/2

## And about SunPower's new low-cost plant built in Manila Cypress-SunPower Manila Solar Plant





### We deployed four Silicon-industry executives to watch over Enovix Rodgers Silicon Valley Acquisition Corp.



Enovix Board							IPO by SPAC: Our Criteria for the Initial Business Combination					
TJR	ET⊦	I JDN	M SG	JM	GR	LH	SPAC S1 filing Target Company Criteria					
Х	Х	Х	Х	х	Х	Х	1.? Public company readiness. This does not necessarily mean having a string of profitable quarters, but we believe the company must have in place the management team, corporate culture and basic business processes.					
х		Х		Х	Х		2. VA technically dominant product to rapidly take market share on a technical (not price) basis.					
х	Х	Х	х	Х	Х	Х	3. Customer endorsements of the company and its products.					
х		Х	Х		Х		<b>4. Excellent employee core values</b> , as defined by Stanford's Jim Collins and Jerry Porras in their classic book "Built to Last", with as many of the following core values as possible:					
							<ul> <li>o Smart, tough and hardworking people</li> <li>o Truthful, concise and non-political</li> <li>X o Objective, logical, data-driven in <u>decision makers</u></li> <li>X o Problem solvers who take responsibility for problems</li> <li>o Committed to their company and vice versa-100% employee shareholders</li> </ul>					
Х		Х	х		х	х	5. An excellent company culture					
							<ul> <li>X o A learning culture that speaks and writes precisely and embraces new ideas of a quality culture that demands excellence from its most challenging product to its memos</li> <li>X o A winning culture that is passionate about delivering results (on time)</li> <li>X o A culture that respects capital with conspicuous avoidance of extravagance and effective cost controls</li> </ul>					
Х	Х	Х	Х	Х	Х	Х	6. An excellent management team					
							<ul> <li>o Fully deployed written quarterly plan</li> <li>o Leads the company by example: work ethic, honesty, objectivity, comittment</li> <li>X o Impatient with delays in new products or important company initiatives</li> </ul>					



#### IPO by SPAC: High Reward but with High Risk – Mitigation Matrix

TJR	ETH	JDM	SG	JM	GR LH	
Х		х				7. A formal plan to grow rapidly by taking a dominant share of a growing medium-sized market versus a small share of a huge market, as explained by Peter Thiel in his book "Zero to One".
Х				Х	Х	8. Excellent gross margin, even at moderate product volumes—with the runway to dramatically reduce costs as competitors counterattack.
х				Х	Х	9. Assecond product on schedule with a credible R&D effort that may temporarily depress operating margins.
						10. AVSilicon Valley technology company
х	х	Х	х	Х	Х	11. Aformal plan to meet street expectations—appropriately for either milestones or financials—for at least four quarters after becoming a public company.

A formal plan to meet street expectations

# EUGAIX

# 3D Silicon™ Lithium-ion Battery

## Enovix – Rodgers SVAC Merger



February 2021

ManyH. Created fear of failure: slow decisions defensive communication



### Our PIPE plan to investors

# **Financials**

		Fully owned Fab-1 and Fab-2			<b>Competitor Data¹</b>		
(All \$M unless noted)	2021	2022	2023	2024	2025	Low	High
Revenue	7 ² NRE	11 Mix Fo	176	410	801		
GM%	NINE	80	14%	nning in Fab1 46%	52%	20%	35%
<b>Operating Expense</b>	35	34	47	83	157		
Opex%		Manual lines 194 operators 80+ yield engs	26%	20%	20%	8%	13%
Operating Income	-31	-61	-21	105	257		
Op Inc%			-12%	26%	32%	12%	22%
EBITDA	-29	-49 55	6	140	314	We cap't huy	
Сарех	58	(117) Money poisonin	87 Ia"	156	80	analogy, we m	our way in. By ust walk into the for a 15-round
Free Cash Flow	-88	-165	-81	-16	235		eight fight.
Cum Cash Flow Trough	-65	-230	-311	-327	-92		

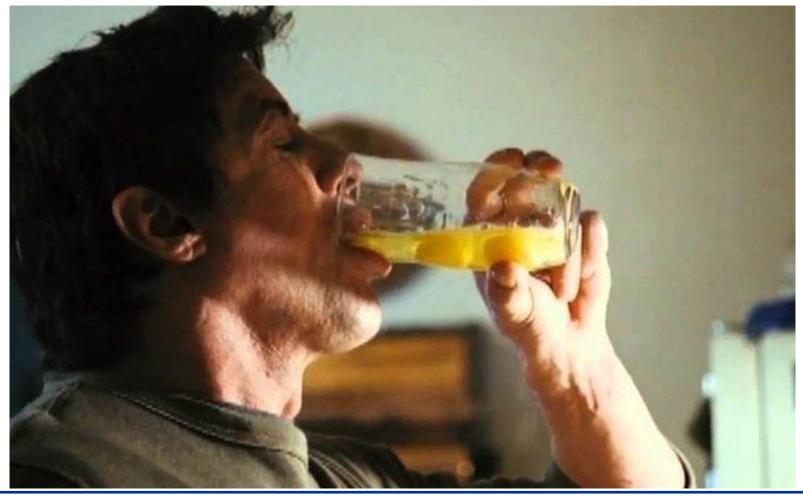


¹Avicenne 2019 factory data

² Non-recurring engineering (NRE) revenue













### The SPAC provided a board with relevant knowledge







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<u>Greg Reichow</u> – Advisor (manufacturing, quality)

- General partner of Eclipse Ventures
- <u>SunPower</u>: <u>built and ran</u> automated <u>solar-cell plant</u>
- Built and ran Tesla Fremont plant













EUGAIX



- 1966-2000: Multiple semiconductor EVP & CEO positions
- 2000-2020: Served on 10 semiconductor boards, avg 6.4 years
- Chairman of the two boards of Motorola, both Freescale and ON
- <u>Six board positions involved significant restructuring</u>, including the **multi-year restructuring of ON Semiconductor**















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Manny Hernandez – CFO, Director (financial controls, SEC, SOX)

- <u>CFO</u> of both <u>Cypress</u> Semiconductor and <u>SunPower</u>
- Ran SunPower IPO and created financial infrastructure
- Chairman of audit committee, ON Semiconductor
- Chairman of BrainChip Inc. (an Al company)



#### TJR 1/3/2023







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TJ Rodgers – CEO (quality, culture, strategic planning, technology)

- Dartmouth: Trustee Emeritus ('04-'12); Hazeltine Award, Physics & Chemistry MSEE, PhDEE Stanford 1975
- · Founded Cypress Semiconductor; IPO 37 months after Series A funding
- Cypress CEO 34 years (1982-2016): sold to Infineon in 2018 for \$10.06 billion
- 20 U.S. patents: transistors, semiconductor processes, automatic mfg line
- Harvard Business Review article and follow-up book "No Excuses Management" on business processes for \$0 to \$100 million in revenue
- Credited with saving **SunPower** with a **\$750,000 personal check**
- Chairman of SPWR at 2005 IPO (and at \$3.6 billion 2008 spinout)
- Enphase Energy turn around: great product, fix the company
- New Enphase CEO, ex-Cypress EVP Badri Kothandaraman
- Enphase operating margin driven up +30 %-points
- Share price increased from \$1.37 in Q1'17 to \$82.59 in Q3'20

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# The Board Was Active

We started to address the PIPE plan miss in August 2022:

8/5 Board discusses CEO change; I informed Harrold Rust 8/24 Launch of COO hiring (Minh Pham) 10/3 Board discusses mechanism for CEO change; I informed Harrold Rust 11/1 TJR took over COO search to address No. 1 problem 11/2 Q3'22 report & 40% share price drop 11/4 Formal launch of CEO Search (JDM); I informed Harrold Rust 11/7 Appointment of TJR as **Executive Chair**; the "beauty contest" 11/10 Hiring of Ajay Marathe as COO 12/24 Unanimous board committee vote to hire Raj Talluri as CEO



# **CEO Harrold Rust**



B.S. Mech. Eng. UC Davis, MSME Stanford

FormFactor: VP Operations 2002-07, IPO 2003, \$369M revenue 2006

IBM: 17 yrs operations, ran disk-drive fab

94 patents, plus 63 pending

Co-founded Enovix: Raised \$789 million Created \$1.9 billion market valuation

# **Guiding Principles 2023 AOP**

(Rev. A, 11/27/22)

#### The AOP is Late: It needs to be wrapped up: 1st draft, 12/1; 2nd draft, 12/22; final draft, 1/19; presentation, 1/26 board meeting

The major assumptions in the AOP must be clearly stated in writing

AOP financials and milestones should have 80%-plus achievability

**EPR-PCR** system methodology must be fully **specified**, **signed** by TJR before anymore POs are placed. All manufacturing equipment must be compliant with the EPR-PCR spec

"Gaming" the EPR-PCR spec will result in termination

**Fab 1** must become "economically important" (not necessarily profitable) with at least \$1 million in revenue and a satisfied customer disclosing that our batteries enable an important product

Fab 1 must create and remain on a detailed board-approved AOP 2023 manufacturing plan

Fab 2 must demonstrate an economic viability plan to the board before it is launched

Gen 2 line must work (fully EPR-PCR compliant) as agreed to in writing by Minh Pham before the board approves POs

Gen 2 equipment owners will prove to the board that they have embedded all the learning from Gen 1 line failures

The company will prioritize putting BrakeFlow into production as quickly as possible on the Gen2 line

New Technology Plans: All R&D projects must have specified NTPs and be currently on schedule and fully staffed



# COO Ajay Marathe



M.S. Industrial Engineering (Texas Tech)

#### AMD (23 years)

Thailand plant manager (6M units/wk) VP Ops: Computation Products (2,500 people) VP Ops: Asian Assy & Test (4 plants) CEO: AMD, India LLC

Lumileds (10 years) COO (\$1.4B lighting company)

Western Digital (\$17B data storage company) SVP Global Ops

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## COO Ajay Marathe Initiatives (First 49 days)

Ownership & accountability — every rejected unit; every down machine has an "owner" Machine-centric yield plans – specific actions with co-owners (maintenance, engineering, operations) Cost of Non-quality program — detect problems earlier; drive down value of scrapped units DFM (Design For Manufacturing) - balance yields with tolerances without compromising performance WIP count discipline on MES – every unit is accounted for Japanese 5S cleanliness & order program – pride in everything we do WCS (World Class Supplier) program - Supplier senior executive relationship development Limit remote work

Re-organized manufacturing

	<u>Before</u>	<u>After</u>
Managers	61	49
Layers	6	5
Output	4,442(Q4)	9,000E(Q1)



# 2023 Manufacturing Guiding Principles

- PoC Proof of Concept: process to make equipment "heads" to be validated (for stacking, etc.) and then automated
- R&D line Existing manual Fremont line that makes 20 batteries per day with Line 1 PoC equipment
- Line 1 Existing Fremont wearables line using PoC equipment, but non-functional automation (550 UPH  $\rightarrow$  100 UPH) "I would actually like to see you run all out for Gen1 no matter Will make **180,000 full-production, revenue-guality** units in 2023 Will continue to be used for the **production** of wearable batteries:
- Yield 0% Jan-April, 42.5% now, plan to be at 60% in Q4'23
- Line 2 Existing Fremont partial line for cell phones that only does laser cut and stack with PoC equipment Line 2 units will be sealed and tested in the existing Fremont facility Line 2 will be activated and make 5,688 units in 2023; then obsoleted by Gen2
- Uses mostly PoC heads from Line 1, but with more parallelism and faster automation (1,350 UPH) Gen2 Line Nameplate capacity 9.5M units/yr @ 80% OEE when ramped Will go to Fab 2, an existing SE Asian, low-cost site (to be announced in July 2023) Design is completed and will be **board-approved by March 15**, 2023 Will be delivered to Fab 2 in Nov 2023; there will be four Gen2 lines in Fab 2 by Q4'24 (funding required)
- Agility Line A new fast-turn Fremont R&D line with Gen 2 components; obsoletes R&D line

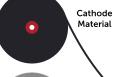
"Selecting the Fab location is a powerful thing." - Shareholder

what it costs to get higher volume. So be it. Even if you did it in a terrible cost structure you could prove you can manufacture. I don't care if you have to build them by hand." - Shareholder

# Fab-1 Will Make a 3D Battery Every 2.0 Seconds¹ (4 lines)

- Shareholder

"The real problem is execution. By my math Fab-1 is doing less than 10% of what it should be doing." 4.1 2 lines @ 550 UPH, 80% OEE 22.5 2 lines @ 100 UPH, 80% OEE 72.0 2 lines @ 100 UPH, 25% OEE



Separator

Material

Anode

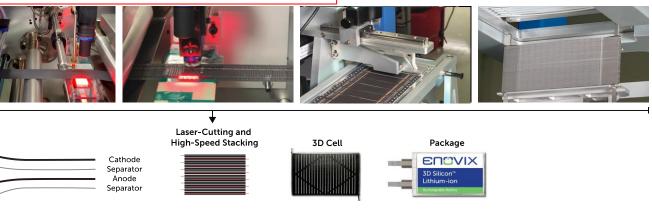
Material

Separator

Material

0

0



Industry Standard Enovix Electrode Fabrication (40% of Mfg Process) and

Enovix 3D Cell Direct Assembly and Pre-lithiation (30%)²

Industry Standard Cell Packaging (30%)

"You need to articulate the exact changes between Gen 1 and Gen 2 and why it doesn't require a miracle to deliver much higher throughput with high yield."

- Shareholder



# Anode PoC Stacker Head



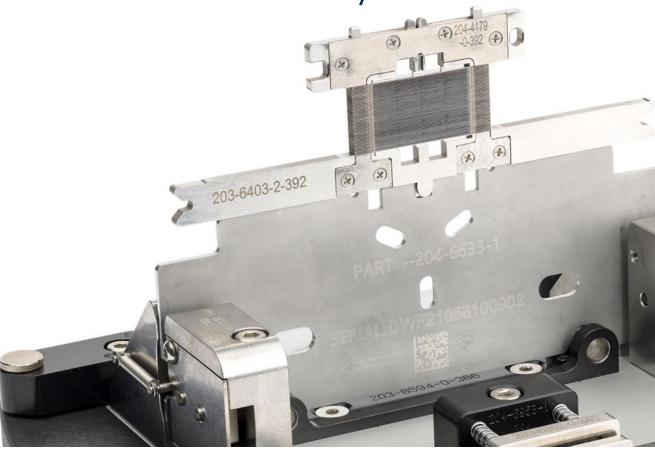


# Stacker PoC Head (Side View)



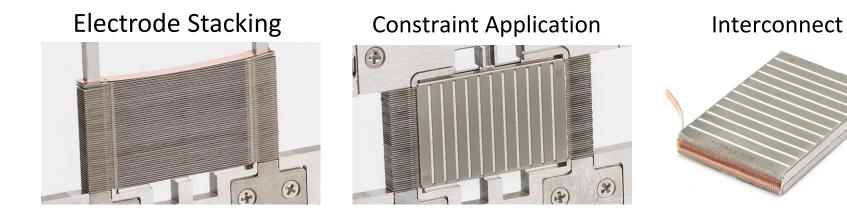


# **Stacker Battery Fixture**





# Subsequent Steps



Heads are what make the battery: Gen 2 vs. Gen 1 is about how many heads there are and how they are transported, not redesigning the heads.



#### Stacker Battery Transport Gen 1 Conveyor Belt – 100-micron Precision





### Gen 2 vs. Gen 1 Lines

<u>Parameter</u>	<u>Gen 1</u>	<u>Gen 2</u>
Placement	Conveyor belt (100µ)	Linear motors (20µ)
Parallelism	3x wide (laser)	Up to 12x wide (vacuum bake)
Metrology	7 stations	30 stations
Cost	\$30M	\$55M
UPH	550 (200 achievable)	1350
Depr./unit ¹	\$1.12 (\$3.08)	\$0.84
Heads	45	120
Heads redesigned		13 (3 types)



1. 7 year life @ 80% OEE

### Gen 2 Heads Are Mostly Reused Gen 1 Heads

Zone	Process	Gen 1	Gen 2	Comments	
	Cathode	3	5	same vendor, up to 1KW	
Zone 1	Anode	3	5	same vendor, up to 1KW	no/small change
Zone I	Separator	1	3	same vendor, up to 1KW	minor redesign
	Laminator	1	1		major redesign
	Stacker start	1	1	End Plate + Stack start	
	Stacker Mid	3	7		
	Stacker End	1	1	End Plate + Stack end	
	End Plate Insert	1	0	Gen 2 integrated into start/end	
	AO Print	2	4		
	Constraint Install	1	3		
Zone 2	Constraint Bake	1	12	Smaller ovens	
	Constraint Weld	2	4		
	Tab Tear	2	4		
	BB Insert	0	6	Gen 1 manual insertion	
	BB Weld	2	4		
	DSR	0	3	Gen 1 manual tool	
	Slot Fill	0	4	Gen 1 manual tool	



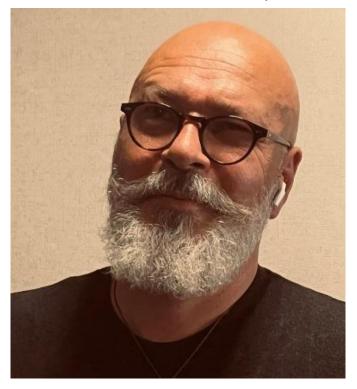
### Gen 2 Line Changes

Zone	Process	Gen 1	Gen 2	Comments
	Vac Bake	3	4	Gen 2 smaller bake
	Tab Weld	1	4	
	PPL	1	6	no/cmall shans
		1	6	no/small chang
Zone 3	Pouching	1	2	minor redesign
Zone 3	E-Fill	1	4	Major redesign
		1	4	
	Degas	1	4	
	Trim	1	4	"You could have a slide that shows that
	Glue & Fold	1	4	the steps are the same and that this
				doesn't require a total recalibration."
	OCV1	1	1	– Sharehol
	First Charge	1	1	
	Buffer	1	1	
Zone 4	OCV2	1	1	
	Formation 2	1	1	
	Aging	1	1	
	OCV 3	1	1	
	Inspection (x;y;z -check)	1	1	
	X-ray	0	1	
Zone 5	Sorting	0	1	Gen 1 no sorting tool
	Packing	1	1	
	Faching	T	T	



### Our (new) Chief Designer

Former member Romanian Naval Special Forces



"The Right Stuff" (Russians beat the first U.S. astronaut to space)

"He had to keep smiling and aw-shucking and playing Mr. Modest, just as if it might, in fact, be he who was going up on top of the rocket on May 2 as the first man in the world to risk the mighty shot into space.

"And then early on the morning of April 12, the fabulous but anonymous Building of the Integral, Chief Designer of the Sputniks, struck another of his cruel but dramatic blows. Just twenty days before the first scheduled Mercury flight he sent a five-ton Sputnik Called *Vostok I* into orbit around the earth with a man on aboard, the first cosmonaut, a twenty-seven-yearold test pilot named Yuri Gagarin. *Vostok I* completed one orbit, then brought Gagarin down safely, on land, near the Soviet village of Smelovka.

"It was as if the Soviets' Chief Designer, that invisible genius, was toying with them."



### Gen 2 Line Milestones (changes in green)

			20	23			20	24		
<u>Milestone</u>	<u>Number</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	
EDR2—Design Apv'd	34		17	17						
PO—Purchase Order	7	<b>7</b> ¹	7							
FAT—Factory Test	34			12	4	18				
Installation	34				16	18				
SAT—Site Test	34					24	10			
PCR2—Line Functionalit	y 34							34		
ES10—Samples	1,000							1K		
PCR3—Line Production	34								34	
QS100—Qual Samples	10,000							10K		
P10K—Production	100,000							<del>100 </del>	÷	
								600I	<b>&lt;</b> ²	
		-	Ajay	Mara	the		Raj Ta	lluri		T.J. Rodgers

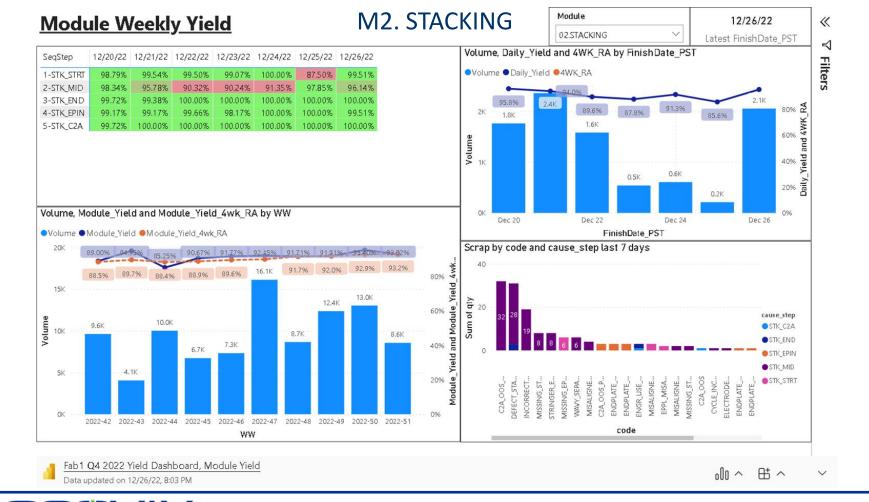
1 All POs signed by 3/15/2023. 3 POs currently placed (Q4 2022). 2 Projected production units.

EUGAIX

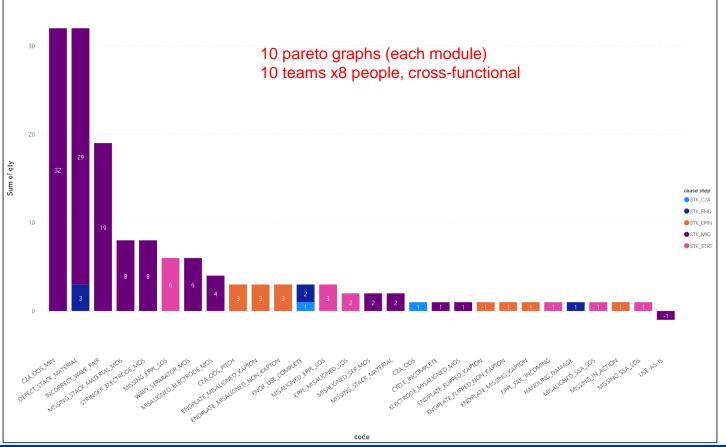


### FAB 1 Weekly Yield Executive Review Meeting

Yield/Integration 2022 WW52



#### Scrap by Code and cause_step last 7 days

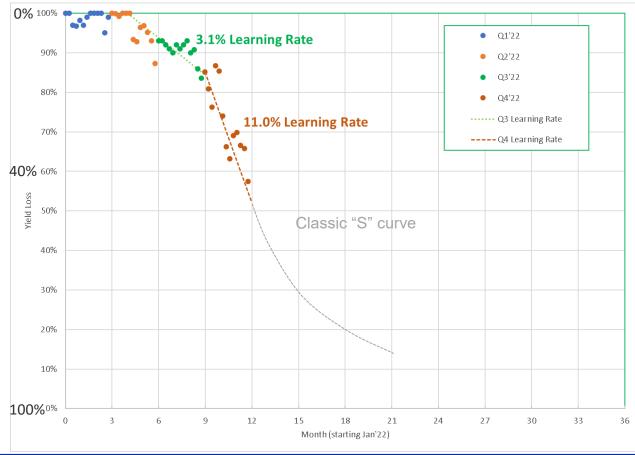




#### 10-Panel Module Charts-6 / 10 modules meets or exceed Q4 yield target



### Yield learning rate accelerated in Q4





Yield



### FAB 1 Weekly Yield Executive Review Meeting

Our yield team is very competent and making good progress

Yield/Integration

Our Fab 1 Quality Return Rate is 0/8812

# EUGAIX

## TAM DOE Requirements for Safety and Accelerated Lifetime (ALT) Testing

206513 Rev A



### Safety and Accelerated Lifetime (ALT) Testing

5.1.3 Each test level will require between 5 and 25 cells to complete the test. **Table 1** shows the quantity of cells required for each test level and the total number of cells required to complete the entire set of tests.

	Different Test Levels	Cells per Test Level	Total Cells required
ESC	10	10	100
High Temp Soak	7	10	70
Overcharge	20	5	100
Drop	3	25	75
Pinch	2	20	40
Crush	6	20	120
Impact	6	5	30
Nail Pen	4	15	60

Other specified tests:

Safety and accelerated lifetime	595
Safety/lifetime margin	200
UN38.3 (airplane shipping)	40
UL1642 (consumer-US)	70
IEC-62133 (consumer-Europe)	125
(Various other country specifications)	

(Various other country specifications)

595

These tests must be repeated every time a cell changes.



### SVP Sales and Business Development Ralph Schmitt



B.S. Electrical Eng. (Rutgers)

Joined Enovix 2021

Turnaround CEO (16 Years)
 Exar-Sipex – Power Analog
 PLX Technology – Networking (acquired by Broadcom)
 OCZ Technology – Solid State Drives (acquired by Toshiba)
 Sensera – IoT MEMS Sensors

Cypress Semiconductor (6 Years) EVP Sales, Marketing and Business Development

Specializes in new market development and customer acquisition

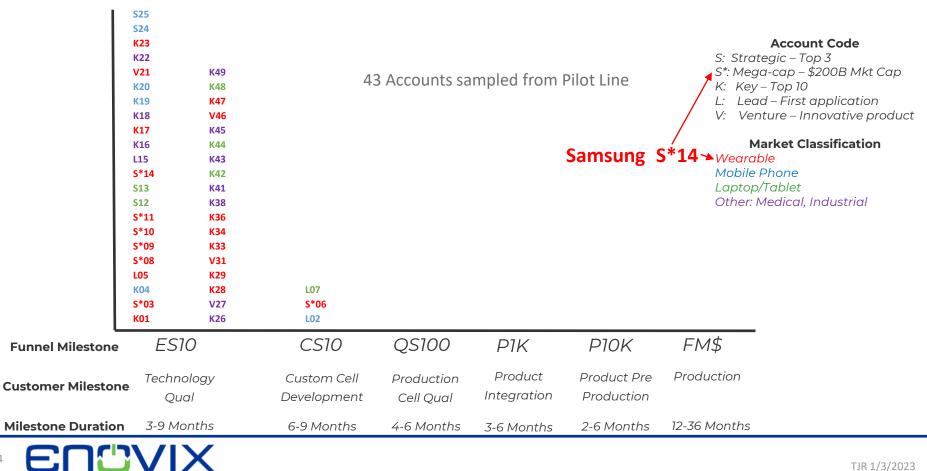


"Design wins translating to Customer Purchase contracts would be useful value drivers – which give investors a better line of sight on revenue path forward."

- Shareholder



I.						
Funnel Milestone	ES10	CS10	QS100	PIK	РІОК	FM\$
Customer Milestone	Technology	Custom Cell	Production	Product	Product Pre	Production
	Qual	Development	Cell Qual	Integration	Production	
Milestone Duration	3-9 Months	6-9 Months	4-6 Months	3-6 Months	2-6 Months	12-36 Months
	VIX					

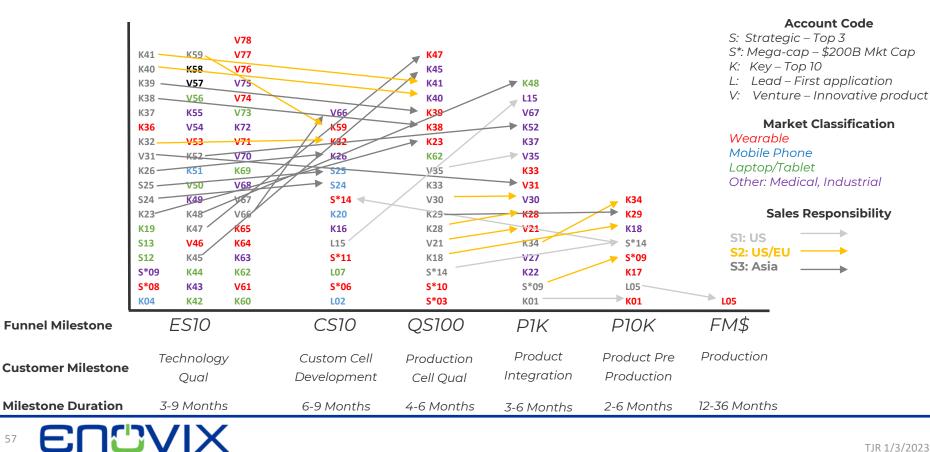


	S25       OPPO         S24         K23       Genius         K22       BBRaun         V21         K20         K19         K18         K17         K16         L15       Army         S*14       Samsung         S13         S12       S*11         S*10       S*09         S*08       L05         K04       S*03         K01       S*03	K49K48NintendoK47CasioV46K45SonosK44K43K42PanasonicK41K38CanonK36K33V31K29K28MilwaukeeV27K26LiteOn	e L07 S*06 L02	43 Accounts sa	mpled from	Pilot Line	S*: Mega K: Key L: Lead V: Ven <b>M</b> <b>Wearab</b> Mobile F Laptop/	d – First application ture – Innovative product arket Classification ble Phone
Funnel Milestone	ES10		CS10	QS100	PIK	PIOK	FM\$	
Customer Milestor	Technolog Qual		Custom Cell Developmen		Product Integration	Product Pre Production	Production	
Milestone Duratio	n 3-9 Montl	าร	6-9 Months	4-6 Months	3-6 Months	2-6 Months	12-36 Months	
55 602	SVIX	<						TJR 1/3/2023

#### Fab1 Enabled Progression to QS100, P1K and P10K

1								A	Account Code
	K42			78 Account	s From Samp	led to Pre-Pr	oduction	S: Strateg	
	K41	K60	V78	707100000110			oddottott		cap – \$200B Mkt Cap
	К40	К59	V77		K62			K: Key – 1	
	К39	K58	V76		V35				- First application
	K38	V57	K75		K34			V: Ventu	re – Innovative product
	K37	V56	V74		К33			Mari	
	K36	K55	V73		V30				ket Classification
	K32	V54	K72		К29			Wearable	
	V31	V53	V71		V27			Mobile Ph	
	K26	K52	V70		S25			Laptop/To	
	S24	K51	K69		К28			Other: Me	dical, Industrial
	K23	V50	V68		V21				
	K19	К49	V67		K22				
	S13	K48	V66		К20				
	S12	K47	K65		K18				
	S*11	V46	K64	L15	К16				
	S*09	K45	K63	L07	S*14	K17			
	S*08 K04	K44 K43	K62 V61	S*06 L02	S*10 S*03	S*09	L05		
l	K04	K45	VOI	LUZ	5.03	K01	LUS		
Funnel Milestone		ES10		CS10	QS100	PIK	PIOK	FM\$	
	Te	echnolo	gу	Custom Cell	Production	Product	Product Pre	Production	
Customer Milestor	ne	Qual		Development	Cell Qual	Integration	Production		
Milestone Duration	<b>n</b> 3.	-9 Mont	hs	6-9 Months	4-6 Months	3-6 Months	2-6 Months	12-36 Months	
56 EN			<						TJR 1/3/2023

### **Customer Funnel Plan 2023**



### 2022 Fab1: 8812 Cell Shipments to Customers

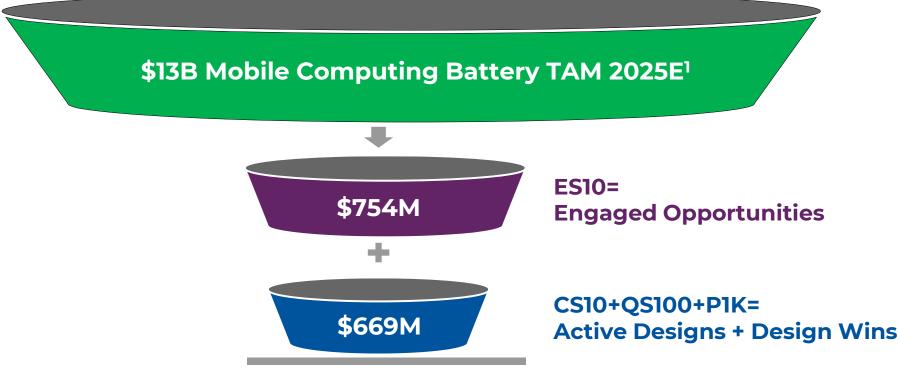
#### Shipments by customer code

Customer	-	Customer	# of Cells
D01	3000	K29	30
L05	1608	K31	30
S24	1125	K32	30
S*09	730	S*03	26
K33	300	V91	24
K34	300	K38	18
S*06	300	K23	15
X1	275	S25	15
K01	250	Х3	12
K17	100	X4	11
S*11	100	V35	10
S*14	100	X6	10
V21	100	K36	6
K28	50	K19	5
L07	50	K37	5
S*08	50	K39	5
V30	40	S*10	5
V77	37	X2	5
K26	30	X5	5
		Total	8812
		Q1	233
		Q2	1135
		Q3	3002
		Q4	4442



D = China Channel

### Funnel Statistics – Dec '22



#### \$1.42B Revenue Funnel (11% TAM)

Gross Value of Full Production Year for all Projects²



¹IDC, Trendforce, company estimates as of January 2021 ²Based on Enovix internal estimates and assumptions; unconstrained by production capacity.

### CEO Raj Talluri (1/18/23)



Ph.D. Electrical Eng. (U.T. Austin)

Micron (2018-2022) SVP/GM; Mobile Business Unit (\$6B/yr)

Qualcom (2009-2018) SVP: Qualcomm IoT (>\$1B/yr) SVP: Qualcomm CDMA

T.I. (1993-2009)

GM: OMAP and wireless product lines GM: Imaging and audio BU Mgr: Digital still cameras Mgr: Video DSP (R&D) MTS: DSP (R&D)

Specializes in new products, business unit management and **business processes** 

### Conclusion

Fab 1 is finally working 8812 Units shipped – zero quality returns Yields improved to 40% and rising Experienced new COO: Ajay Marathe Will ship 180,000 units in 2023 Gen 2 will be board-approved 3/15/23 Common PoC heads, faster automation (1350 UPH) Gen 2 will be installed in Fab 2 in SE Asia in Q1'24, 4 lines by Q4'24 Gen 2 ES10 samples 4/15/24 We have a stellar new CEO who will Refine strategy, install R&D processes and instill a P&L mentality AND







### **Appendix Final**



#### Executive

Summary:

- 38 years career spanning Semiconductor, Solar; Opto Electronics and Storage industries
- Diverse Leadership portfolio from Chief Operating Officer to Corporate VP Operations to CIO to President of an Emerging Region
- Currently managing \$8 Billion Direct Material spend plus \$3 Billion IDM spend for WDC
- Managed over 6,000 workforce across 7 countries; 3 Continents with an Annualized Budget of \$1 Billion as COO and co-executive sponsor of a \$500M Specialty Business at Lumileds
- Managed over 3,000 workforce across the world as CVP Operations, at AMD for over 20 years. Built Factories in Singapore (2002); Penang (2003); Suzhou (1999) and Bangkok (1990); Ran all of Supply Chain and Procurement for AMD including start-up of Fab30 in Dresden; Ran Corporate IT for AMD
- Unique "start-up" experience in a Multi-National where team grew from 3 to 100 and Revenue from zero to \$100M as President, AMD India
- Recognized by Academic Institutions as well as Trade Magazines as one of the Highly Distinguished Executives

#### Experience:

#### Oct 2021 to date: Senior Vice President, Global Operations Western Digital Corporation, San Jose, CA

Western Digital Corporation is a Fortune #217, \$17B global provider of solutions for the collection, storage, management, protection and use of digital content, including audio and video. The Company's products include hard drives, solid-state drives, and home entertainment and networking products.

#### Responsibilities:

- Manage Global Procurement: Approx total Direct Material spend of \$6 Billon; over 3,000 suppliers
  worldwide for both Hard Disk Drive BU and Flash BU; Manage overall Indirect Material spend of
  approx. \$3 Billion including all Capital expenditure; Real Estate development and all other IDM
  categories
- Manage Global Supply Chain for the corporation with 9 factories across the world and key JV for Wafer production in Japan.
- Manage all outsourced Manufacturing partners for both Front end (TSMC/UMC/GF/Others) and Back end (PTI;ASE; UTAC; Cal Comp; QSI; others)
- Key Focus areas: No line down due to material shortages supplier resiliency; DIO <60 days; Keep/increase wafer allocations in spite of supply shortages; keep expedite fees/ premiums to a minimum

#### Oct 2011 to Oct 2021:

#### **Chief Operating Officer**

#### Lumileds LLC an Apollo Management Co. San Jose, CA

Lumileds is a \$1.4B lighting company that develops, manufactures, and distributes LEDs, light bulbs, and related products for automotive lighting, general lighting, and specially lighting. Originally a HP/Philips JV, Lumileds now operates as a private company, owned partially by Apollo Global Management and Philips

#### Responsibilities:

 Manage the 3 LED Manufacturing sites – Epitaxy Fab in SJ; Wafer Fab in Singapore and Backend Assembly and Test operations in Penang, Malaysia



- Manage 6 Automotive Lamps and Accessories Manufacturing sites 4 in Europe and 2 in China Jiaxing and Songzi
- Manage internal Phosphor powder and Garnet ceramic manufacturing site in Aachen, Germany
- Workforce of over 5,000 Direct Labor; 1000 Engineers and Technicians and over 400 Support
  personnel

Functions managed:

- Manufacturing; Product/ Yield and Test Engineering; Supply Chain; Procurement; Quality/Reliability; Color Control Engineering and, IT/HR/ Finance for Operations on a dotted line basis
- Over \$1.2B of annual spend and ~ \$80M Capex budget (FY19)
- Managing Operational Excellence via a DIMES program an acronym for Design for Manufacturability; Integral Yields; Materials Cost down; Equipment Effectiveness and Supply Chain Excellence
- Delivering over \$100M cost reduction year over year for past 9 years; staying ahead of the ASP reduction
- Instrumental in turning the company around from 2011 to 2018 and making Lumileds the only
  company in the top 10 LED companies that grew year over year in the tough business environment;
  remaining continuously profitable for 11 quarters in a row from Q3 2013; recently facing Auto
  Business headwinds
- Co-Executive owner of the relationship with a key US customer making Smart Phones, managing to remain the majority provider for Camera Flash LEDs in the face of major competition. Over \$2B revenues; >\$1B net margin business over last 6 years
- Technology Development worldwide including:
  - Epitaxy Development group in SJ
  - o Die and Device architecture group in SJ and Singapore
  - Phosphor Development group in Aachen; SJ and Malaysia
  - o Packaging Development and Engineering group in SJ and Malaysia
- Total Development Budget of approx. \$70M; 200 Engineers

#### Oct 2009 to Oct 2011 : Senior Vice President, Operations Solaria Corporation, Fremont CA

Solaria Corp operates as a solar technology company. The Company designs, develops, and manufactures crystalline solar modules which leverages automation technologies and generates solar energy for residential and commercial solar markets.

Responsibilities:

- Create and manage Operations; Process Engineering & Automation and Supply Chain teams in Fremont and India
- Establish strategic supply relationships with key direct material suppliers (Glass; Solar cells; EVA and Backsheet), mostly in China
- Supply contracts with guaranteed baseline volumes; upside flexibility and High volume pricing in spite of low loading today
- · Contract Manufacturing partner selection and set-up
- · Manage CM operations KPI including yields; key SPC indices and Unit cost
- · Conceptualize Process Automation; select Automation supplier and award business
- Buy-off Automated equipment and implement in HVM production Fremont and Hyderabad, India
- · Ramp production from few modules a day to 3 MW in Q3 2011 to 100 MW in 2012
- Company Fund raise. Round D = \$55M; Current round = \$30M. Became part investor in the company prior to round D in 2010.



#### Nov 2007 to Feb 2009: Chief Executive Officer Semiconductor Group

#### Reliance Industries Ltd (Ranked #1 Marketcap corporation in India)

Reliance Industries Ltd (RIL) is a diversified company headquartered in Mumbai India, with business interests in energy, petrochemicals, textiles, retail, entertainment, materials and telecommunication sectors with a gross annual revenue of over \$1000

#### Responsibilities:

- Create the Company Vision and Mission and prepare a complete Business Execution Plan and strategy for an "in-organic" entry for RIL into the Semiconductor Manufacturing Business
- Convince the RIL Board of Directors of "Buy first Build Later" strategy
- Attract, top notch talent of senior executives for key positions in the company the "Start-up" team
- Create a "Unique" Business model of engagement with targeted top tier IDMs who would be
  potential business partners with RIL as they get "Asset Smart"
- Work with the Government of India and potential Private Equity firms and large multi national Banks to secure financing

#### Feb 2007 to Nov 2007: Chief Operating Officer SemIndia USA Inc., Santa Clara CA Responsibilities:

- Create the Company Vision and Mission and prepare a complete Business Plan and strategy to establish SemIndia as the First Integrated Semiconductor corporation in India
- Attract, top notch talent of senior executives for key positions in the company the "Start-up" team
- Create a "Unique" Business model of engagement with targeted top tier potential customers
- Take ownership of the Supply Chain for SemIndia systems to ensure profitable growth and Delivery to Promise
- Carefully select the Technology partner for the proposed Wafer Fab Operations, negotiate the
  overall transfer agreement and lock down the roadmap from 90nm thru 45nm/300mm.
- Work with the Government of India and potential Private Equity firms and large multi national Banks to secure financing for the SemIndia Assembly and Test and SemIndia Wafer Fab Operations

#### April 1984 – Jan 2007 Advanced Micro Devices

Advanced Micro Devices Inc (AMD), a Fortune #56 \$110B marketcap company, is a manufacturer of semiconductor products. The company designs, manufactures, develops and markets high-performance computing, graphics, and visualization technologies.

#### Dec 2004 to Feb 2007 Corporate Vice President & President, AMD India (Expatriate position) AMD India Ltd. Bangalore. India

Responsibilities:

- Establish Sales, Marketing, Business Development groups from ground up (Total team size = 25 full time plus 50 "feet on the street" contractors)
- Set-up Silicon Design and Software development groups in India (Total team size = 80 Engineers and growing, Today over 4,000)
- · Complete ownership for P/L for India and surrounding regions
- Grow at 2X that of the PC market in India and ramp the total topline from zero to \$100M in a 2 year period.
- Market share in India grew from 4% to 22% in Q206 with a healthy ASP and Gross margin >40%



- Transformed the profile of customers from all distribution/ whitebox to doing business with all major OEMs in the country (local and Multinationals)
- Made an entry into most of the top 50 prestigious customers of India including the Central Government as well as many State governments.
- Collaborated with the Central Government Ministry of IT, to architect the semiconductor manufacturing policy for India

October 2002 to Nov 2004: Corporate Vice President, Business Process Transformation Group Emerging Markets Initiative AMD, Inc., Sunnyvale CA

Responsibilities:

- Chief Information Officer, Chief Procurement Officer, leading the Corporate IT, Corporate Supply Chain Management, Corporate Logistics and Custodian for AMD India.
- Transforming the company into a "Process based" corporation by integrating these stand alone functions into the Business Units
- Setting up the processes to then lend themselves to a "co-sourcing" type of business model with
  appropriate "complementors/partners" and reducing the overall cost burden for these services. Also,
  more importantly, "variablize" the cost structure so that the company can focus its efforts and dollars
  on its core competencies.
- Total cost reduction achieved = \$200M per year
- Big Bang implementation of SAP SD across AMD kick-off to go-live in 7 months. Successfully
  brought up all sites with only one week down time. Project completed on time and within budget.
  Managed a team of over 200 cross-functional professionals for this implementation.
- Put together a strategy for all "emerging markets" with the objective of growing twice as fast as the market was growing in these regions.
- Emphasis on India and China from both, Sales point of view and how to utilize the abundant and relatively cheaper talent in these two countries.

December 1999 to October 2002: Vice President of Operations, Computation Products Group Manufacturing Services Division, AMD Inc. Sunnyvale, CA

Responsibilities:

- Managing the Microprocessor C4 Assembly and Test Operations located in Penang and Singapore respectively (40 Million units per year) – 2,500 employees. Total Annual Budget = \$1Billion
- Manage all Microprocessor related Assembly and Test Engineering and Logistics activities total US employees = 160.
- Manage the subcontractor operations and Engineering group which oversaw all back-end subcontracted activities for AMD. 4 Major subcontractors; total annual run rate = 90Million units; \$67M. For 2 years, this also included managing the Athlon "board build" program at SCI in Huntsville, Alabama.
- Manage Physical distribution and Transportation for AMD worldwide. This included 4 distribution centers offshore, one in Santa Clara and one in Amsterdam. Annual Budget for distribution and transportation = \$25M
- · Ensure proper day to day die loading of the factories to maximize labor efficiency.
- Plan ALL Direct and Indirect material required by the factories to build Microprocessors and ensure no stock-outs. Total annual budget of \$500M.
- Strategic 3 year demand/supply planning for ALL factories (Assembly and Test) that directly impacts Capital purchases, Space and head count.



- Model and Predict with high accuracy, the output of each factory on a weekly basis to feed the demand engine.
- · Act as an official liaison between various product groups and the factories.
- Manage Dice, packaged and finished goods inventory at each factory. Including the SMI programs with Key customers.
- Manage a local Engineering TEST operation with a 2 shift crew supporting the launch of new
  products into production mode.
- Manage a group called "running start" which helped demonstrate the performance of AMD products on customer's boards with real applications.

July 1997 to Dec 1999 Director of Logistics, Manufacturing Services Group, AMD Sunnyvale, CA

#### September 1996 to July 1997: <u>Director of Operations, AMD Thailand</u> Ltd, Bangkok Thailand (Expatriate)

Responsibilities Included:

- Manage 6 Million/week semiconductor Assembly and Test/Finish operation for FLASH and Programmable Logic products. Packages manufactured included Plastic Dips, PLCCs, TSOPs and SOICs.
- Prepare the 5 year strategic plan for the Thailand operations including the new product roadmap, productivity indices, standard unit cost (ABC methodology) projections, MSO and Variance analysis.
- · Managed an overall workforce of 1000 exempt, non-exempt and direct labor staff.
- Managed ALL Engineering functions in this factory such as, Product Engineering, Test Engineering, Process Engineering and, Industrial Engr.
- Trained 3 local department level managers to take over the Operations and promoted them to Directors
  of their respective operations Assembly, Non-Volatile memories (FLASH) and, Programmable logic

#### April 1984 to September 1996:

Several Engineering positions from Individual contributor to Supervising Engineer to Engineering Manager @ AMD, Inc, Sunnyvale CA

#### Education:

Master of Science in Industrial Engineering, Texas Tech Univ, Lubbock, TX. Graduated Dec, 1983. GPA = 3.9; Alpha Pi Mu honor student

Inducted into the Industrial Engineering Academy of Engineers in 2005 by the Texas Tech Dept of IE

Honored by the Texas Tech School of Engineering as one of their **Distinguished Engineers** – a prestigious honor given to only 200 students to-date over past 100 years.

Statistical Process Control and LEAN Blackbelt certification in 1992

BS, Production Engineering, Univ of Bombay, India. First class with Distinction. Graduated : 1982.

#### Other Significant Honor:

Honored as one of the top 25 IT Executives in India – twice in a row 2005/2006 when I was posted there as President of AMD India.

#### References: Available upon request.



Raj Talluri, Ph.D Senior Vice President, General Manager, Mobile Business Unit, Micron Technology, Inc.

Résumé	
	SUMMARY
Quick Links	
Experience	28+ years of executive corporate management experience spanning various disciplines including product management, business management, product
Texas Instruments	marketing, press, investor communications and engineering management.
Qualcomm	Innovative and creative business leader. Chosen as <b>No. 5</b> , Most Creative Person in the business in 2014 by Fast Company Magazine
ISRO Satellite Center	http://www.fastcompany.com/3029177/most-creative-people-2014/raj-talluri for
Education	work in IoT.
University of Texas at Austin	Currently leading a > \$6B/year mobile memory and storage business at Micror Technology.
Publications	Incubated, built and led \$1B/year IoT business unit at Qualcomm.
Patents	incubated, built and to a proryour for business and at equilibrium.
Personal	Led the multi \$B Qualcomm Snapdragon Application Processor business and increased market share from low double digits to over 50% in 4 years making i the number 1 shipping Apps Processor in the market.
	Championed, executed and managed the \$2.4B acquisition of CSR Inc a leading supplier of Bluetooth Technologies into Qualcomm,
	Deep expertise and experience in Application Processors. Responsible for two of the most successful applications processors in history of mobile - OMAP and Snapdragon.
	Proven track record of successfully managing large, worldwide business and development teams. Highly customer focused with strong business relationships with the leadership teams of top Smartphone manufacturers, consumer electronics leaders and apps processor ecosystem partners.
	Strong technical background with a Ph.D in Electrical Engineering from the University of Texas at Austin. M.Engg from Anna University, Chennai, India and B. Engg from Andra University, Waltair, India. 13 granted US patents and over 35 technical publications.
	Experience
Top	
http://www.micron.com/	Senior Vice President, General Manager, MBU, March '18 – Present Micron Technology, San Jose, CA
	<ul> <li>Responsible for the P&amp;L of a portfolio of a &gt; \$6B/year Mobile DRAM and NAND business. Grew the business significantly in last two years. Diversified the portfolio of both DRAM and NAND products. Expanded the customer base and stabilized the overall P&amp;L.</li> </ul>

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Top

Top http://www.qualcomm.com/	Senior Vice President, General Manger IoT Business Unit Qualcomm CDMA Technologies Qualcomm, San Diego, CA	June '15 – Mar '18
Top	<ul> <li>Responsible for all aspects of Qualcomm's Internet Of Things (IoT) business. Incubated the business and grew it to a 51B/year highly profitable biz with a diversified set of over 500 customers. Product portfolio included SG/4G moders. Bluetooth, Wifi, Zigbee, and Snapdragon Application Processors.</li> </ul>	
http://www.qualcomm.com/	Senior Vice President, Product Management, Applications Processors, Qualcomm CDMA Technologies, Qualcomm, San Diego, CA	April '12 – June '15
	<ul> <li>Responsible for all aspects of Qualcomm's Snapdragon Application Processor technologies and AP product roadmaps for Smarphones, Tablets, Automotive, home DMA boxes and other emerging AP businesses. Reporting to the President of the chipset division.</li> </ul>	
Top http://www.qualcomm.com/	Vice President, Product Management, Applications Processors, Qualcomm CDMA Technologies, Qualcomm, San Diego, CA	Feb '09 – April '12
	<ul> <li>Responsible for Qualcomm's Application Processor technologies including CPU, GPU, DSP, video, imaging, audio, GPS, sensors and other connectivity technologies</li> </ul>	
Top http://www.ti.com/	General Manager, OMAP, Wireless Terminals Business Unit Texas Instruments, Dallas, Texas	2007 – Jan 2009
	<ul> <li>Responsible for profit and loss of a World Wide, \$755 profitable, semiconductor business with 800+ people Europe, Japan and Asia;</li> <li>Responsible for a portfolio of businesses that deliver solutions that include OMAP Application Processors media coprocessors in mobile phones</li> </ul>	across US, India, silicon and software
Top	General Manager, Imaging and Audio Business,	2002 – March 2007
http://www.ti.com/	Texas Instruments, Dallas, Texas	
In 7 years, I built and lea 1 team that created a \$250M, profitable, business for 11 from soratch and am now responsible for 115 / DSP strategy in Digital Consumer	<ul> <li>Responsible for profit and loss of a World Wide, &gt;\$250M/year, profitable, semiconductor business with 200 + people across US. India, Japan and Asia</li> <li>Responsible for a portfollo of businesses that deliver silicon and software solutions for Digital Sill Cameras, Portable Audio and Camera Phones</li> <li>Manage all aspects of the business including business strategy, roadnap development, marketing, finance, and customer quality</li> <li>Managed the definition, architecture, design and development and high volume production of 15⁴ complex, high performance, very low power, SoCs with high levels of analog and digital integration</li> <li>Managed WW design feams in developing these chips in deep sub micron technologies and state of the art design flows with both analog and digital technologies</li> </ul>	

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rtalluri@yahoo.com



top	Business Unit Manager, Digital Still Camera 1999 – 2002 Business		
http:///ocus.ti.com/docs/apps /catalog/overview/overview.j html?templateld=1010&path =templatedata/cm/level1/dat a/vidimg_digstillcam_ovw	Texas Instruments, Dallas, Texas		
Texas Instruments now has the largest market share of all the merchant vendors of digital still camera solutions	<ul> <li>Responsible for profit and loss of the World Wide, Digital Still Camera business unit</li> <li>Championed and developed the business strategy, DSC engine roadmap, third party value web and a strong customer base that resulted in TIs DSC solutions being used by 7 of the top 10 camera manufacturers. Led TI to over 20+% market share in this space</li> <li>Chief Architect of DSC21, a highly successful single chip solution for DSCs</li> <li>Developed new business opportunities for TI in emerging markets that include AV juke boxes, tape less camcorders, camera phones, photo printers, multiformat DVD players using the digital still camera chipsets and their variants</li> </ul>		
http://www.ti.com/	Manager, Video Technology, DSP R&D Center Texas Instruments, Dallas, Texas	1995 - 1999	
I started at Texas instruments as a Member Technical Staff. Within a short period I was promoted to manage the team. I built a leading edge video technology team	<ul> <li>Lead and manage research and development into various aspects of image and video technology and multi-media DSP architectures</li> <li>Lead the team that developed the coprocessor architectures for image processing and video compression in digital still cameras</li> <li>Chief Technologist of the Digital Still camera business responsible for chip architectures, silicon design, software and technical strategy</li> <li>Elected Distinguisted Member Technical Staff. This is very distinguished recognition at T1 and only 1% of the world wide technical population at T1 is in this cadre.</li> </ul>		
top		1993 – 1995	
http://www.ti.com/	Member Technical Staff, DSP R&D Center Texas Instruments, Dallas, Texas		
	<ul> <li>Developed video compression techniques and for w applications. This technology is now part of the ISO MF standards.</li> <li>Represented Texas Instruments at ISO MPEG-4 and ITU chaired adhoc groups and made several technical contrib standards</li> </ul>	PEG4 and JPEG2000 H.324 standards;	
http://www.ti.com/	Summer Intern, Computer Science Division, Texas Instruments, Dallas, Texas	Summer 1991	
two US patents resulted from this work at TI	Developed target tracking and range estimation techniques using image processing		
top http://www.isro.org/centers/c en_isac.htm	Scientist, ISRO Satellite Research Center, Bangalore, India	1986 - 1987	
	Developed image processing hardware and software for a Star Sensor used in the Indian Remote Sensing Satellite.		
top	Education		
http://www.utexas.edu/	Ph.D. in Electrical Engineering University of Texas at Austin, Austin, Texas	1988 – 1993	

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http://www.ece.utexas.edu/p rojects/cvrc/	Ph. D. Dissertation: "Position Estimation Techniques for Autonomous Mobile Robots"		
I did research Image Processing, Computer Vision and Robotics at one of the premier Computer Vision research labs in the world	Advisor: Dr. J. K. Aggrawal		
top			
http://www.annauniv.edu/	M. Engg Anna University, Madras, India	1984 – 1986	
top			
http://www.indiaxpress.com/au /coe/	B. Engg 1980 – 1984 Andhra University, Waltair, India		
top	Publications		
http://www.iece.org/ these publications are a direct result of my work at Texas Instruments and my research work in academia	<ul> <li>Published over 35 journal articles, conference papers, and book chapters in many of the leading electrical engineering publications.</li> <li>Chaired sessions at many of the industry leading conferences and also ISO MPEG standard bodies</li> <li>Gave numerous invited talks and lectures at industry forums on compression, image processing and multi-media silicon solutions</li> </ul>		
top	Patents		
http://www.uspto.gov/ these patents are a direct result of my work at Texas Instruments	<ul> <li>13 granted US patents and a few more under review on image processing, video compression, and media processor architectures</li> <li>Techniques patented on video compression are now adopted into the popular ISO MPEG4 standard</li> </ul>		
top	Personal		
	<ul> <li>Citizen of United States of America</li> <li>Married with two children</li> <li>Languages: English, Hindi and Telugu.</li> <li>Hobbies: Photography, Reading, Tennis, Bac</li> </ul>	dminton, Billiards,	

Traveling

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