

# Jagathguru Pazhanivel

Leicester, UK | +44 7887151600 | [jagzimmerz@gmail.com](mailto:jagzimmerz@gmail.com)

Portfolio: [jagzimmer.com](http://jagzimmer.com) | [linkedin.com/in/jagath-guru-bb263518a](https://www.linkedin.com/in/jagath-guru-bb263518a) | [behance.net/jagathguru](https://www.behance.net/jagathguru)

Open to international roles and relocation

## Personal Profile

Engineering Manager with 6+ years of experience with multinational manufacturers in Product Development, Process Engineering, and New Product Introduction (NPI), including more than two years inside Apple's iPhone manufacturing supply chain at Foxconn Hon Hai Technology and Pegatron Technologies. Supported NPI and manufacturing engineering across eight iPhone product lines, from iPhone 12 mini through iPhone 17 and iPhone SE 4th Generation. Proven record of delivering a 40 percent efficiency gain through Design of Experiments (DOE), reducing process variation by 20 percent, and achieving 95 percent on-time project delivery. Holds a UK MSc in Engineering Management from the University of Leicester, awarded with Distinction, with research in operations research, systems engineering, and engineering project management. Brings experience of working within global supply chains and multinational, multicultural teams, combining hands-on factory floor experience with strategic engineering management, UI/UX design, data analytics, and AI-driven workflow automation. Full portfolio, project reports, and degree confirmation available at [jagzimmer.com](http://jagzimmer.com).

## Education

**January 2025 to June 2026**      **Master of Science in Engineering Management, University of Leicester**  
Awarded with Distinction      Full-time, Leicester campus

Programme focus: systems engineering, project and portfolio management, operational excellence, cost and risk management, and sustainability across the engineering lifecycle. Dissertation completed in 2026.

**August 2023 to July 2024**      **Diploma in User Interface and Experience Design**  
Indian Institute of Technology Madras (IITM), Chennai, India      GPA: 8.28/10, Distinction

**August 2014 to July 2018**      **Bachelor of Engineering, Mechanical Engineering**  
Anna University, Mahendra Institute of Engineering and Technology, Salem, India      GPA: 8.25/10

## Relevant Work Experience

**December 2023 to December 2024**      **Senior Product Design Engineer, iPhone Team**  
Foxconn Hon Hai Technology, Bengaluru, India

- Directed end-to-end NPI and prototyping for the iPhone product line, applying DOE methodologies that boosted design efficiency by 40 percent and shortened time-to-market.
- Reduced process variation by 20 percent through data-driven optimisation, process mapping, and statistical analysis of production data.
- Deployed FMEA frameworks that cut validation cycle time by 15 percent and strengthened product reliability ahead of ramp.
- Coordinated cross-functional Agile teams across engineering, quality, and supply chain, delivering 95 percent on-time completion across concurrent programmes.
- Raised output efficiency by 20 percent by applying Lean Manufacturing principles to streamline production workflows and remove waste.
- Lifted product quality metrics by 18 percent through systematic FMEA reviews within R&D validation processes.

**May 2023 to December 2023**      **Product Developer, AT&T Sales and Marketing**  
Lemonpeak, Chennai, India

- Designed user interfaces for web and mobile platforms in Figma, increasing user engagement by 35 percent.
- Built interactive wireframes and high-fidelity prototypes aligned with AT&T brand guidelines.
- Delivered a 25 percent increase in user engagement through web interface optimisation.
- Led the Telegram app UI/UX redesign end to end, from user research through to final prototype handover.

**December 2021 to May 2023**      **Technical Production Engineer, iPhone Manufacturing**  
Pegatron Technologies, Chennai, India

- Set up high-quality manufacturing lines through cross-phase engineering coordination, meeting 100 percent of NPI event timelines.
- Increased overall manufacturing efficiency by 10 percent through hands-on production support and line balancing.
- Improved repair yield by 20 percent by introducing targeted cost-reduction initiatives.
- Streamlined supply chain flow using Lean systems, sustaining 98 percent on-time delivery.
- Raised manufacturing reliability by 25 percent through Root Cause Analysis of quality failures across OQC, OBA, CA, and ORT.

**August 2019 to December 2021**      **New Product Development Engineer, ATM Systems**  
NCR Corporation, Chennai, India

- Engineered advanced security protocols using CP/CPK analysis, strengthening ATM system security by 30 percent.
- Improved system consistency by 18 percent through rigorous software and hardware integration testing.
- Wrote QA test cases and validation protocols on the PANGIA Test System, with defined expected results and pass criteria.

Selected MSc Projects (full reports at [jagzimmer.com/projects](http://jagzimmer.com/projects))

- **Lunar Gateway Logistics Optimisation (Operations Research):** Built a Mixed Integer Linear Programming (MILP) model for logistics and resource scheduling on NASA’s Lunar Gateway, balancing competing constraints against optimisation targets.
- **Engineering Project Management (EPM) Project:** Applied the full project management discipline to a live engineering case, covering planning, scheduling, risk management, and stakeholder governance.
- **TARS Bag (Systems Engineering):** Led a smart backpack systems engineering project end to end, from requirements capture and system architecture to the verification and validation pipeline.

Key Skills

**Engineering Leadership and Project Management:** Led cross-functional teams across iPhone NPI programmes, achieving 95 percent on-time delivery. Skilled in Agile, Scrum, stakeholder engagement, risk management, and resource optimisation.

**Process Excellence and Continuous Improvement:** Applied Lean Manufacturing, Six Sigma, FMEA, and DOE to deliver a 40 percent efficiency gain and a 20 percent reduction in process variation.

**Product Development and NPI:** End-to-end NPI covering DOE, FMEA, pilot runs, ramp, and yield optimisation across eight iPhone generations.

**Data Analysis and Manufacturing Analytics:** Statistical process control, CP/CPK analysis, and KPI dashboards built in Power BI, Python, and advanced Excel.

**Communication and Content Creation:** Hosts and writes a Tamil-language science channel on YouTube, translating complex technical topics into clear, engaging content.

Positions of Responsibility

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>December 2021 to December 2024</b>                                                                                                                                                          | <b>iPhone Product Line Lead</b> |
| Pegatron Technologies and Foxconn Hon Hai Technology                                                                                                                                           |                                 |
| Oversaw NPI and manufacturing engineering for iPhone 12 mini, 13, 14 Plus, 15, 15 Pro Max, 16, 17, and SE 4th Generation, managing the product lifecycle against quality and delivery targets. |                                 |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>May 2023 to December 2023</b>                                                                                                                    | <b>Telegram App Redesign Project Lead</b> |
| Lemonpeak for AT&T                                                                                                                                  |                                           |
| Guided the complete UI/UX redesign, working with cross-functional teams to deliver user-centred design solutions aligned with AT&T brand standards. |                                           |

Awards and Achievements

- **MSc Engineering Management, Distinction (2026):** Awarded by the University of Leicester; official confirmation letter available on request and via the portfolio.
- **Manufacturing Excellence Award (2024):** Recognised for implementing DOE methodologies that achieved a 40 percent efficiency improvement in iPhone NPI projects at Foxconn.
- **IIT Madras UI/UX Excellence (2024):** Graduated with distinction (GPA 8.28/10) from the UI/UX Design Diploma.
- **Process Optimisation Achievement (2023):** Reduced process variation by 20 percent through data-driven optimisation during iPhone production.
- **Quality Excellence Recognition (2022):** Achieved a 25 percent increase in manufacturing reliability through systematic Root Cause Analysis at Pegatron.

Technical Proficiencies

**Engineering and Manufacturing:** New Product Introduction (NPI), Design of Experiments (DOE), Failure Mode and Effects Analysis (FMEA), Lean Manufacturing, Six Sigma, Root Cause Analysis, Statistical Process Control (SPC), CP/CPK Analysis, First Pass Yield Optimisation, Process Validation, Quality Assurance, Production Engineering, Supply Chain Management, Systems Engineering, Operations Research (MILP)

**Project Management and Leadership:** Agile, Scrum, Jira, Microsoft Project, Gantt Charts, Cross-Functional Team Leadership, Stakeholder Management, Risk Management, Change Management, Project Portfolio Management

**Data and Analytics:** Power BI, Python, MATLAB, Advanced Excel, ERP/MRP Systems, Manufacturing Analytics, Factory KPI Dashboards

**Design and Prototyping:** Figma, Adobe Photoshop, Adobe Illustrator, CAD (SolidWorks, AutoCAD, CATIA), Wireframing, Prototyping, User Research, Design Thinking

**AI and Automation:** OpenAI API, Claude AI (Anthropic), Claude Code, Prompt Engineering, AI Agents, Workflow Automation

**Languages:** English (Fluent), Tamil, Kannada