

# JAGADEESH RAHUL RAJENDRAN

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## CAREER OBJECTIVE:

An agile engineer with enthusiasm to learn, lead, and guide. Frequently praised as proactive by my peers and professors, I want to leverage my academic experience and knowledge in the fields of research, manufacturing, product, process, and project development to fulfill the company's requirements as an engineer.

## WORK EXPERIENCE:

### INTERNSHIP:

#### VYVOXEL INC, SANTA CLARA, CA, USA.

*Business Development and Technical Product Marketing, (May-sept 2023)*

My work in this startup was lead generation via market research to assess the market trend for business expansion and demonstrate workflow improvements for the client with our products. I was given the chance to delegate on behalf of my employer on-site to demonstrate product capabilities and help clients understand value propositions. Cross-functional collaboration was practiced to communicate between client and developer teams to ensure clients' demands were satisfied. **As an intern, I pipelined two POCs with enterprise clients and organized over \$100,000+ in business collaboration.**

#### RENAULT-NISSAN AUTOMOTIVE INDIA PRIVATE LIMITED, Chennai, India.

*Man Power Strategic Planning Office, (may- July 2019)*

**Man Power Strategic Planning Office** is a small but essential group of experts within the company who periodically analyze and suggest modifications in the production process to reduce the overall manufacturing/production time/cost for a product. MSPO also helps to use manpower minimally based on market demand, production planning, and manufacturing process optimization, to achieve Just in Time without any buffers following Kaizen for continuous improvement. A layout of the production plant was drawn and the schematic job flow was created. **I trimmed the production time by a few minutes per part through fast-paced data interpretation and analysis using a bespoke Japanese paradigm.**

## INPLANT TRAINING:

### FORD MOTORS COMPANY INDIA, Chennai, India.

*In-plant Trainee,*

- This program teaches students about real-world engineering techniques and the Company's process flow with unique quality control and safety standards were studied during this period

### LUCAS TVS, Chennai, India.

*In-Plant Trainee,*

- Practical training and intellectual program on global safety and standards like kaizen, 5's, JIT, and Industry 4.0.

## EDUCATION:

### California State University, East Bay, Hayward, California.

*Master of Science in Engineering Management/Industrial Engineering (2022 - 24)*

Major concentration on core subjects like sustainable product design, process simulation using Promodel software, Project management using MS Project, Analytical methods with QM software, Quality and reliability Management, Human resources management, Analyzing issues in Engineering management through AI/ML, and supply chain Management.

## **Jeppiaar Engineering College, Chennai, India.**

*Bachelor of Engineering in Mechanical Engineering (2016-2020)*

- **Awards & Honors:**

- a. Indian Society of Heating Refrigeration and Air Conditioning, National Quiz (AQUEST) Prelim's 1st place conducted by Hitachi in 2019
- b. **Society Of Automotive Engineers**, Intra college quiz winner (2018,19),
- c. Secured 5<sup>th</sup> spot out of 130 teams in **Indian the Society of New Era Engineers** Go-Kart Design Challenge (2019).

### **PROJECTS:**

- **MINI PROJECT (Bachelor's pre-final year, 2019):**

**Design and Fabrication of Carbon-di-oxide reduction Exhaust Module using Amines.**

To help India (the largest two-wheeler market in the world), attain its carbon-neutral goal, we designed an innovative prototype of an exhaust system using cost-effective materials to reduce carbon dioxide emissions from the exhaust gas.

- **MAIN PROJECT (Bachelor's final year, 2020):**

**Efficiency enhancement of conventional Coolants using Nano Material Science.**

Materials fused in coolants that help maintain an optimal temperature in batteries and computers are researched, modified, and tested in this experiment to improve their efficiency for more sustained performance. They were validated for commercial coolants in the market.

- **EXTERNAL PROJECT:**

**Go-Kart Design Challenge** conducted by ISNEE in 2019 at Galgotias University, Noida, New Delhi, India.

A Go-kart was designed and fabricated from scratch using ISNEE guidelines and was competed against several college students across India.

### **PUBLIC PAPER PRESENTATIONS: (ICONSTEM-International Conference for STEM)**

- **Efficiency Enhancement of Conventional Coolants using Nano Materials (2020), (URJAVAN 2019)**

Conventional coolants were modified using Nanomaterial and were tested and compared to conventional coolant's efficiency using KD2 thermal pro equipment under ideal conditions. Improved thermal conductivity efficiency by up to 15%.

- **Insight into the next-generation car, (2016)**

The new technology that was developed/ under development by various automotive companies was showcased graphically. Advantages, disadvantages, real-world usage, and statistical data were demonstrated.

### **LEADERSHIP AND VOLUNTEERING:**

- **Student Supervisor** at Dining Commons, Cal State East Bay (2023)
- **Treasurer** (2019) and **Student representative** (2018) at the Society of Automotive Engineers (SAE).
- **Student Representative** at the Indian Society of Heating Refrigeration and Air-conditioning (ISHRAE).
- Member of the Japan Society of Mechanical Engineers (JSME).
- Member of the Indian Society of New Era Engineers (ISNEE).

## **SKILLS:**

- Microsoft Project, Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.
- Automotive Anatomy and its Manufacturing Technology.
- Managerial skills (conducted state-level SAE event, Cal State East Bay University dining student supervisor).
- Problem-solving skills with team coordination and critical thinking.
- Consumer Technology and its related knowledge.
- High Communication.
- Technical Product Marketing.
- Interests in basic research and reverse engineering.
- Google Maps Reviewer with over 4M views and 90+ followers

## **CERTIFICATIONS:**

### **Design Software's**

- AutoCAD, CATIA, PTC Creo/Pro-E.  
**Programmable Logical Control**
- Certified **PLC** Programmer in **Rack type** (Allen Bradley, ABB, Siemens, Omron, Beck-Hoff) and **Industrial type** (Allen Bradley, ABB, Siemens, Omron, Mitsubishi, Delta, Keyence, Nexegni).  
**SCADA** (ignition, Dia view, CX supervisor, and XINGview).