

# Aathreya Ganapathy Subramanian

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## Career Goal

Seeking an opportunity to leverage my talents as a proactive engineer and continue my career in the field of Manufacturing. I have the follow-through and positive attitude that keeps me motivated to achieve mutual targets. I am always passionate to learn new technologies and keep myself updated with the growing hot skill and willing to broaden the knowledge horizon of my peers.

## Leadership Competencies

- Creative and capable problem solver with a strong logical and analytical mind; able to quickly master and test applications for complex information
- Strong history of effective collaboration with all levels of management
- Exceptionally detail oriented; skilled at developing organizational and procedural systems
- Able to prioritize multiple projects and meet stringent deadlines under pressure

**Eligible to work for any employer in The United States of America**

## ACADEMICS

Graduate [Master's]- University of California San Diego  
GPA- 3.52/4.00

## PROFESSIONAL HIGHLIGHTS

### Manufacturing | Design | Quality

#### **StellaWearables [San Diego- Currently Working]**

Startup responsible for designing and manufacturing UV tracker Fitness watches. My role includes, leading the Design and Hardware [Enhance the Man-Machine relation] team and overseeing the Wireless Connectivity with the embedded systems development. Watch casing material testing and Characterization with Design of Experiments for Material Handling & Supplier Quality. Support for UI app Design and QA testing of the application using Selenium and QTP, also with Manual Regression tests script design.

#### **Craftsman Automation [July- September 2016]**

Industry primely responsible for manufacturing high tech sheet metal components with various housings for automobile industry. Was involved in the Quality department who were assessing the Engine Block, Transmission Housing. Focused on learning the standards of ISO standards with TQM focus. Also instrumental in modification of draft angle measurements which reduced the cost of manufacturing by 8% with 17% industry profits. Additionally, worked with the Foundry Quality department with focus on alloying composition and Metallurgical Microstructure analysis testing and Hardness testing [Vickers & Rockwell]

#### **Moog Controls [Nov 2014- Jan 2015]**

Leading Actuator Manufacturer for aircrafts and various other manufacturing tech components like Injection Molding machine, Drilling equipment. Joined the Manufacturing and assembly team after learning the mechanism and use of Servo Actuators. Teamed up with the Design team to oversee the features and the process of engineering design with SolidWorks and AutoCAD. The final phase of my internship, I held onto the opportunity to join with the Supply Chain manager and learn the management activities [Process & TQM] of the industry and the flow structure of Moog. Given the opportunity to talk personally with suppliers to get quotes and negotiate.

#### **Ashok Leyland [Mar- June 2013]**

Leading Manufacturer of Automobile in India. Been a part of 3 teams: Casting, Heat treatment and Assembly all in the Quality Department. Attained exponential learning curve during this internship where live interaction with automation was seen and hands-on experience with various heat treatment processes of normalizing, tempering and annealing. Following that, performed hands-on NDT with Ultrasonication, Magnetic Particle testing and Endoscopy.

## Teaching Experience

### **Graduate Teaching Assistant [UC San Diego]**

-Taught the course which deals with Materials, mechanical lab involving the wind turbine simulation, water channel testing, Helicopter Modelling and Simulation and PID controllers [MAE 175]

- Lab focused on Data Acquisition using Lab view. Involving application knowledge of sensors, oscilloscopes, Transducer, Pressure Sensors [MAE 170]

## **--- I have held 2 years of Industry experience in the Technology Sector**

### **PROJECTS - LEAD RESEARCH FELLOW**

- **PUBLICATION:** 10.1039/C7ME00104E "Directed Assembly of Metal Nanoparticles in Polymer Bilayer- **Royal Society of Chemistry.**

**Technology skills obtained: Raman, XRD, AFM, UV/IR Spec, TEM, SEM**

- **Graphene as Suture:** Owning this Active project proposal at UCSD

- **PZT Actuator:** Design of System with active using of characterization techniques like DSC, TGA, SEM, Raman Spec.- For PhD Scholars at UCSD

- Development of Nano coatings for Electromagnetic wave absorption: **Centre of Technology and Development (Anna University, Chennai)** **[Stealth mode operation with nano- technology]**

- Study of Coercivity Enhancement by Mechanical Alloying of Bismuth Ferrite and Nickel Powders. **[Induction of ferromagnetism into a non-ferromagnetic compound]**

- The Study in the variation of strength in Leather waste Composites along with the addition of ceramic filler Alumina: **Central Leather Research Institute, Chennai** **[Skills Obtained : UTM, Strength Analysis testing, Hardness Testing, Composite manufacturing]**

### **WORKSHOPS | CONFERENCE**

- **MATERIALS IN AEROSPACE TECHNOLOGY**, at Anna University, Guindy, Chennai

- Presented the **HOT SKILL** Non- Destructive Testing techniques to Industrialist [Hands-On]

- **AEROSPACE MATERIALS** by the American Society of Mechanical Engineers (ASME)

- Thermal Transport in Organic- Inorganic Heterostructures: UC San Diego

- Design Principles of Non-Graphitic Carbon Electrodes for Energy Storage- Oregon State University

### **TECHNOLOGY | SKILLS**

#### **Productivity Tools:**

- Trello
- Agile Methodology
- Microsoft Applications (Word, Excel, PowerPoint, Office Suite)
- Slack

#### **Software/ Equipment Handling Skills:**

- Labview | MATLAB
- Solidworks
- AutoCAD
- Origin Pro
- Troubleshooting
- Spiwin used for Surface Analysis of Materials
- SEM
- TEM
- X- ray Diffraction
- Raman Spectroscopy
- TGA | DSC | AFM

#### **Leadership Skills:**

- Supply Chain Management- Industry Certified
- Six Sigma (TQM Certified)
- Industrial Management (DFM, DFEA)
- Lean Manufacturing
- Systems Engineering
- Public Speaking
- Influencer | Team Builder
- Conflict Management

#### **Project Management Skills:**

- Benchmarking
- Budget Planning
- Fabrication
- Project Planning
- Quality Assurance
- Quality Control
- Task Delegation & Management

### **EDUCATION**

UNIVERSITY OF CALIFORNIA SAN DIEGO (2016- JUNE 2018)

- Masters in Materials Science & Engineering

COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY (2011-2015)

- Bachelors in Materials Science & Engineering

**References will be provided upon request**

