**Professional Summary**

Highly motivated Aerospace Engineer seeking to grow in design andmanufacturing engineering environment.

Experienced in various engineering processes and project management, including new product design, value engineering, manufacturing, and quality improvement utilizing six sigma.

**Certifications - Six sigma**, **GD&T**, Mastercam, SolidWorks, MATLAB, Creo Parametric, Python.

**Experience**

*Analyst (PLM) | Kelly Services* ***|*** *Irvine, CA* Oct 2018 - Present

* Analyzed, coordinated and administered the processing of all Engineering Change Requests (ECR's), Engineering Change Orders (ECO's), Engineering Drawings and FDA Medical Device Procedures.
* Interacted with engineers, manufacturing, assembly, management, and quality personnel to determine change requirements, evaluate type and scope of change, parts disposition & checked redline drawings.
* Root Cause Analysis of Non-Conformances in the manufacturing line to **improve quality by 15%.**

*Research and Development (Intern) | Vasavi Groups* ***|*** *India* May 2015 - May 2016

* **Slashed production costs 30%** by incorporating modern CAE/CAM/CIM systems design specifically using Generative Shape Design with **SolidWorks & Siemens NX**.
* Quality check to verify the appropriate tolerances and finishes are reflected from the Engineering Drawings on the manufacturing and assembly floor.

**Education**

California State University | Long Beach, CA May - 2018

Master of Science, Aerospace Engineering

Anna University **|** India Apr - 2016

Bachelor of Engineering, Mechanical Engineering

**Technical Skills –** Siemens NX, CATIA, Ansys, Auto CAD, Autodesk Inventor, Abaqus, C++, MS Office.

**Soft Skills** – **Excellent English Communication**, Adaptability, Leadership and Problem-Solving Skills.

**Projects**

***Liquid Propellant Rocket*** – Fabrication & Testing the rocket’s design for buckling & critical stresses.

Recon Q14 - Creatively conceptualized & engineered a ready to print 3D, Solid Works model of a drone which features an Artificial Intelligence based approach for search and rescue.

**Achievements**

Honorary Graduate | Leadership Academy | California State University May - 2018

Yukthi (Team Lead) | India | Awarded first place Dec – 2015

Spearheaded the national level student project contest team where we developed a mini motorcycle. Trained the team on various processes such as cost analysis, raw material procurement & manufacturing. Budgeting and cost analysis helped us **reduce total cost by 13.3%**.

Automated Guided Vehicle (Team Lead) | India | Top 2 Mar – 2014

Robogenius a national level robotics contest encouraged us to build our own Automated Guided Vehicle (AGV) which **awarded top 2 position** in the contest for completing the tasks at a minimal time.

LinkedIn: <https://www.linkedin.com/in/arvik/>

Portfolio: <https://portfolium.com/AravindKaruppu>