SRIVATHSA ARUN KUMAR

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EDUCATION

New York University, Tandon School of Engineering, New York, NY — May 2023
Masters of Science, Mechatronics and Robotics, GPA: 3.56/4
Coursework: Mechatronics, Robotics, Simulation tools, Localization and Navigation, Entrepreneurship

Siddaganga Institute of Technology, Tumkur, India — Oct 2020
Bachelor of Engineering, Mechanical Engineering, GPA: 8.30/10
Coursework: Machine Design, Project Management, Mechatronics, Automatic Control Engineering, Manufacturing

SKILLS

Python, ROS, Computer Vision, MATLAB, Solidworks, Solidedge, Ansys, C, SQL Lite, Microsoft Office

EXPERIENCE

Project Intern, **Volvo Construction Equipment,** Bangalore, India — Jul 2018 – Jul 2018
- Led the team in detection of defects in assembly line of compactors resulting in an 12% reduction in product defects and discussed improvements in team coordination
- Advised and facilitated modifications at assembly line, resulting in enhancement of production rate by 9%
- Managed and monitored material supply, welding operation, and other manufacturing operations

Intern, **Hindustan Aeronautics Limited,** Bangalore, India — Jun 2018 – Jun 2018
- Researched fighter jet assembly and participated in industrial training for aerospace products manufacturing
- Indulged and underwent training on failure analysis of older aircrafts and Boeing aircraft doors

PROJECTS

New York University, New York, NY — Sep 2021 – Dec 2021
Project: Self Balancing Two Wheeled Robot
- Devised Two-wheel robot using Fusion 360 and simulated balancing motion deploying Simscape in MATLAB
- Compared settling time for PID and LQR controller, by varying height of the model for sample time of 5 seconds
- Examined the balance of the system for 2 different motions and for random disturbances

New York University, New York, NY — Sep 2021 – Dec 2021
Project: Automatic Guitar Tuner
- Collected the data of frequency for all the 6 strings in guitar and conceived tuning techniques
- Programmed Arduino Uno Rev3 to tune strings by employing Electret Microphone Amplifier and Servo Motor

Siddaganga Institute of Technology, Tumkur, India — Aug 2019 – Apr 2020
Project: Performance evaluation of thermoelectric generator
- Designed and calculated specifications required for generator using Solidworks software tools
- Analyzed and evaluated generator performance deploying the CFD option in Ansys Workbench
- Performed computational analysis using Ansys toolbox and optimized system efficiency by 16%

ADDITIONAL ROLES AND RESPONSIBILITIES

Siddaganga Institute of Technology, Tumkur, India — Mar 2019
- Led and organized workshop on “Integrated Mechanical System