NAPHISH LASHBA RAJ

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PROFESSIONAL SUMMARY

A highly analytical, motivated and focused Aerospace Engineer and Roboticist with experience in Product design and CAD modelling. A quick learner and effective team player with good communication and a track record of performing efficiently in fast paced and global environments. Seeking an opportunity to contribute my skills towards the development of new innovative technology and in the process enhance my knowledge of the industry.

SKILLS

- Advanced knowledge of C and C++
- Processor Testing and Regression Analysis using Python
- Data Analysis using R
- MATLAB and SIMULINK
- ROS (Robot Operating Software)
- NonSQL Databases (MongoDB)
- Advanced problem solving skills

- 3D modelling using CATIA v6
- Computer-Aided Design (CAD)
- Structural Analysis using ANSYS 16
- Circuit and PCB design using CADsoft Eagle
- Machining Skills including Sheet Metal and Welding
- Project management
- Communication skills

WORK HISTORY

04/2013 to 08/2013   **Hardware Engineering Intern**

Mercedes Benz – Chennai, Tamil Nadu, India

- Performed diagnostics and testing on Mercedes Benz automobiles for Quality Control and Systems inspection.

03/2014 to 08/2014   **Systems Engineering Intern**

Hindustan Aeronautics LTD – Bangalore, Karnataka, India

- Performed CNC programming on aircraft parts and control surfaces.
- Played a major supporting role in process and systems maintenance along with the structural and electrical assembly of a HAWK MK 132 trainer aircraft.

03/2014 to 05/2015   **Computer Vision and Artificial Intelligence**

CruiseAder – Chennai, India and Stockholm, Sweden

- Played a major role in setting up the navigation and telemetry aspects of an Autonomous UAV by implementing Simultaneous Localization and Mapping (SLAM) algorithms to enhanced navigation through rough terrain.
- Created structural layouts and part drawings using CATIA v5 and SolidWorks.

06/2016 to 10/2016 **Unmanned Aerial Vehicles (UAV) Research Assistant**
United Nations Children's Fund (UNICEF) – New York City, New York, USA
- Summer Intern working with the Innovations unit at UNICEF's New York Headquarters for their drone project in Malawi and South Africa.
- Played a key role in creating/setting up test corridors and technical policies. These policies aided the government in working with drones for delivering Medical supplies to isolated communities.

EDUCATION

2015 **Bachelor of Technology (B.Tech)**: **Aerospace Engineering**
SRM University - Kattankulathur, Tamil Nadu, India
- Member of the SRM University Robotics club
- Coursework includes Avionics and Control Systems, Mobile Robotics, Rocket Propulsion and Aerodynamics.
- Published a paper on a prototype Satellite clean up Module to help remove Orbital debris in space.
- Worked on building a Weather Monitoring UAV to track heatwaves and provide Atmospheric data.
- Captain of the SRM Varsity Tennis Team.

Current **Masters in Engineering (M.ENG)**: **Aerospace Engineering**
University of Toronto - Toronto, Ontario, Canada
- Emphasis in Robotics and Artificial Intelligence.
- Wrote a paper on 3D navigation and horizon mapping for UAV navigation using Point cloud clustering.
- Certification of Emphasis in Robotics & System design.
- Certification in Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE).
- Risk Management Chairman at Phi Delta Theta Ontario Alpha chapter (2016)