Rajiv Varma Mantena

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Professional Summary

o Highly inquisitive engineer holding a Masters in Robotics and a Bachelors in Mechatronics. Expertise across disciplines of mechanical design, mechatronic/embedded design, machine learning, computer vision, etc.

o Strong research experience in disciplines spanning mechanical engineering, electronics, and haptics.

Education

Master of Science in Mechanical Engineering (Robotics)   *Salt Lake City, UT*

College of Engineering, University of Utah   August 2015 - May 2017

Coursework : Classical and Modern Control Theory, Haptics, Machine Learning, Computer Vision

Bachelor of Technology in Mechanical Engineering (Mechatronics)   *Hyderabad, India*

Mahatma Gandhi Institute of Technology, Jawaharlal Nehru Technological University   2009 - 2013

Coursework : Computer Aided Design, Machine Drawing, FEA, Instrumentation, Microcontrollers

Skills

Engineering :   Solidworks, ANSYS, MATLAB & Simulink, LabView, Keyshot
Programming :   Embedded C, UNIX shell & BASH, Arduino, C++, Python, SQL

Experience

- *Mechanical Engineer* - **Nokē, Inc.**, Lehi, UT & Hyderabad, India   Feb 2018 - Present
  - Played a key role in expanding the smart-lock product line for *Nokē*. Designed, prototyped and trouble-shot several new products and accessories for verticals ranging from Logistics to Self Storage.
  - Worked closely with the firmware team to ensure reliable mechatronic performance of all products.

- *Volunteer Engineer* - **Therapeutic Games and Apps Lab**, Salt Lake City, UT   Nov 2017 - Feb 2018
  - Implemented a custom gesture recognition algorithm using EMG & IMU sensor data from an armband worn on a person's forearm. Machine Learning models were used to learn and identify custom gestures.

- *Graduate Intern* - **Overstock.com**, Salt Lake City, UT   Jun 2017 - Sept 2017
  - Optimized the sales prediction models by training several machine learning regression algorithms.
  - Achieved an impressive 40% reduction in error (MAE, MSE) over their existing prediction models.

- *Graduate Assistant* - **University of Utah**, Salt Lake City, UT   Aug 2015 - May 2016
  - Mentored students in design, prototyping, and testing of miniature Robots, to serve a given purpose.
  - Supervised lab sessions for junior year undergraduate students for Mechatronics I & II courses.

- *Asst. Systems Engineer* - **Tata Consultancy Services**, Hyderabad, India   Jan 2014 - Jul 2015
  - Optimized monitoring of application servers and dependent scheduled jobs by creating Shell scripts.
  - Helped reduce the number of IT incidents raised. Appreciated with *Star of the Quarter* award.

- *Undergrad Research Intern* - **Centre for AI and Robotics**, Bengaluru, India   May 2012 - July 2012