

Rajiv Varma Mantena

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Professional Summary

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.

Education

Master of Science in Mechanical Engineering (Robotics)

College of Engineering, University of Utah

Salt Lake City, UT

August 2015 - May 2017

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

Bachelor of Technology in Mechanical Engineering (Mechatronics)

Mahatma Gandhi Institute of Technology, Jawaharlal Nehru Technological University

Hyderabad, India

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.

Graduate Assistant - University of Utah, Salt Lake City, UT

Aug 2015 - May 2016

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

Patents

Electronic Lock and Interchangeable Shackles - US20200242868A1 (US)

[link] July 2020

Electronic Lock and Interchangeable Shackles - WO2020154738A3 (World)

[link] July 2020