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.

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