

# Rajiv Varma Mantena

Salt Lake City, UT

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## Professional Summary

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- 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

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### 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

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**Engineering :** Solidworks, ANSYS, MATLAB & Simulink, LabView, Keyshot

**Programming :** Embedded C, UNIX shell & BASH, Arduino, C++, Python, SQL

## Experience

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- **Mechanical Engineer - Nokē, Inc.**, Lehi, UT Feb 2018 - Present
  - o 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.
  - o 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
  - o 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
  - o Optimized the sales prediction models by training several machine learning regression algorithms.
  - o 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
  - o Mentored students in design, prototyping, and testing of miniature Robots, to serve a given purpose.
  - o 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
  - o Optimized monitoring of application servers and dependent scheduled jobs by creating Shell scripts.
  - o 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