Rajiv Varma Mantena

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Professional Summary

- Mechanical Design Engineer with over 3 years of experience in CAD modeling and product development.
- Expertise across disciplines of mechanical design, mechatronic/embedded design, machine learning, etc.

Education

Master of Science in Mechanical Engineering (Robotics) — *Salt Lake City, UT*
College of Engineering, University of Utah — August 2015 - May 2017

Bachelor of Technology in Mechanical Engineering (Mechatronics) — *Hyderabad, India*
Mahatma Gandhi Institute of Technology, Jawaharlal Nehru Technological University — 2009 - 2013

Skills

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

Experience

Mechanical Engineer - **Self Employed**, Hyderabad, India — Jul 2020 - Present

- Providing mechanical engineering services to *Nokē, Inc.* as an Independent Contractor based in India.
- 3 years of experience in identifying mechanical design requirements and developing optimal solutions.

Mechanical Engineer - **Nokē, Inc.**, Lehi, UT — Feb 2018 - Jun 2020

- 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.

Patents

Electronic Lock and Interchangeable Shackles - US20200242868A1 (US) — [link] July 2020

Electronic Lock and Interchangeable Shackles - WO2020154738A3 (World) — [link] July 2020