Rajiv Varma Mantena

Hyderabad, India

mantenarajiv@gmail.com @
+91 86390 54964 ☎
rjv.mntn.cc 🌐
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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, Remote - **Nokē, Inc.**, Hyderabad, India Jul 2020 - Present
- Providing mechanical engineering services to *Nokē, Inc.* as an Independent Contractor based in India.
- Designing and developing the next generation of *Nokē's* Smart Locks for several different verticals.
- 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

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

Patents

Electronic Lock and Interchangeable Shackles - US20200242868A1, WO2020154738A3 July 2020

Controllable Door Lock - US20210054661A1, WO2021035219A1 February 2021