

ANDRIUS RAULINAITIS

MECHANICAL ENGINEER

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I am an Electromechanical Engineer in the Los Angeles area with a passion for R&D and robotics/mechatronics. I enjoy writing new software for prototype testing, as well as data generation, collection, and analysis.

ENGINEERING EXPERIENCE

DIVERGENT 3D

Torrance, CA

Advanced Additive Manufacturing Systems Engineer

June 2018 – April 2020

- Developed improvements to existing metal SLM AM machines, including powder feeding and recoating.
- Developed new technologies for new metal AM machines
- Worked with production 3D printing systems to provide and monitor resources from a centralized location
- Parameter development for new materials in new AM processes
- Self-taught 6-axis robot programming (teaching points and OLP) for Yaskawa Motoman robot
- Create software and programs to generate data and job files for new/prototype AM machines and systems
- Design, fabricate, assemble, program, test, and iterate on electromechanical prototypes for AM machines

ENVISIONTEC

Gardena, CA

R&D Mechanical Engineer

February 2016 – May 2018

Junior R&D Mechanical Engineer

November 2015 – February 2016

- Find resources for new technologies and products for novel 3D printing methods and machines
- Create original designs and design iterations in SolidWorks given technical specifications and testing results
- Motor selection, mechanism design, laser/lens housing design, sensor selection, engineering drawings for manufacturing – including GD&T, creating BOMs for ERP software, and assembly drawings for production
- Assembly and testing of designs
- Embedded systems prototyping, such as Arduino and Galil for sensor feedback and control
- Generating job files for 3D printing machines, loading/running 3D jobs on machines, developing programs for mechanism testing, creating and modifying scripts for 3D printing algorithms

• TECHNICAL SKILLS

- 3D Printing: prototype Metal Laser Melting Machine (in-house development), EnvisionTEC (cDLM, Micro/Vida, 3SP, SLCOM), Ender 5, Lulzbot Taz and Mini, 3D Systems ProJet 3000HD
- Engineering Programming: MATLAB, LabVIEW, Galil Motion Control, C++
- Applications: Jira, Slack, SAP, Oracle
- 3D Modeling: SolidWorks (Certified SolidWorks Associate), AutoCAD

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

Bachelor of Science in Mechanical Engineering

May 2015

VOLUNTEERING

FRC Team 4999: Momentum Robotics

Long Beach, CA

Mentor

December 2015 – Present

- Teach safety, problem solving, mechanical design, communication, electronics, programming, prototyping, fabrication/assembly, and testing to high school students
- Works with other team mentors to coordinate student leadership, productivity, and supervision
- Traveling to official and off-season events, as well as off-season community outreach events with the team to oversee the students in the team pits, including rapid modifications and repairs to the team's robot between matches