

ANDRIUS RAULINAITIS

MECHANICAL ENGINEER

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I am an Electro-Mechanical Engineer in the Los Angeles area with a passion for R&D and robotics/mechatronics.

TECHNICAL SKILLS

- Engineering Programming: MATLAB, Simulink, LabVIEW, Fluigent, Galil Motion Control, C++
- Applications: Redmine, Slack, PowerPoint, SAP
- 3D Modeling: SolidWorks (Certified SolidWorks Associate), AutoCAD, 3D Printing
- Data Acquisition and Feedback Control/Mechatronics: MATLAB, Simulink, LabVIEW, Sensirion, Galil Motion Controllers, Arduino

ENGINEERING EXPERIENCE

ENVISIONTEC

R&D Mechanical Engineer

Junior R&D Mechanical Engineer

Gardena, CA

February 2016 – Present

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

MICRO MECHANICAL METHODS FOR BIOLOGY (M3B) LABORATORY PROGRAM

Berkeley, CA

Co-Director/Researcher

February 2014 – May 2015

- Managed multiple 3D printing teams: Design focus, team meeting times, and lab times
- Designed, modeled, developed, and tested 3D fluidic components (microfluidic diodes, capacitors, transistors, microbead trapping array)

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

Bachelor of Science in Mechanical Engineering

January 2012 – May 2015

GPA: 3.65/4.00

- Areas of interest: Feedback Control Systems and Electro-Mechanical Design

VOLUNTEERING

FRC Team 4999: Momentum Robotics

Long Beach, CA

Mentor

December 2015 – Present

- Teaching 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