Adhiraj Datar

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Education

Dec 2019 B.S. EECS and Materials Science and Engineering - The University of California, Berkeley

Minor: Physics (Minor GPA: 4.00)

Department GPA: 3.95

Relevant Coursework:
Properties of Materials, Electrodynamics, Optics, Relativity, Polymeric Materials, Linear Algebra and Differential Equations, Bonding, Crystallography and Defects, Quantum Mechanics, Engineering Thermodynamics, Matlab Programming, Data Structures

Projects

Jan 2017 - Present Berkeley Energy and Climate Institute
Fabrication, Manufacturing and Design Intern

- In charge of prototyping and scaling production for FlexBox console designed to protect sensors and data collection devices from extreme thermal and pressure conditions)
- Prototyped FlexBox with Autodesk Fusion and 3D Printing, created 2D Profile to laser cut batch of 100 units, and developed model to Injection Mold console in the future.
- Skills and Proficiencies: Autodesk Fusion 360, Inventor, Inkscape, AutoCAD, 3D Printing, Laser Cutting, Injection Molding

Sep 2016 - Present Lazr Lab
Co-Founder

- Created startup to make RC Aviation parts. Sketched and Modeled RC Quadrotor frames in Autodesk Fusion 360. Developed functional machined by parts by CNC Milling frame designs
- Achieved high-quality, low-cost results by laser cutting designs instead of crafting frames traditionally. Generated >$5000 in sales. (Website: lazr.us)
- Skills and Proficiencies: Fusion, CNC Milling, Material Selection, Polymer Processing

Research

Dec 2016 - Apr 2017 DuraTact
Self Healing, Damage Resistant Surface

- Designed strategically weakened surface to minimize collision damage and restore it using self healing block copolymers. Won semi-finalist position at Conrad Spirit of Innovation Challenge

Jan 2016 - May 2016 Research: Evaporation Suppressing Monolayers in Increasing Hydrolubricant Longevity
Tribology

- Motivated to reduce the $3bn yearly losses to frictional degradation. Quantified contribution of evaporation suppression towards increasing time/cost efficiency of hydrolubricants

Dec 2016 - Apr 2017 BlueWater
Home/Industrial Water Consumption Monitoring System

- Designed console for water consumption monitoring system/flow meter. Manufactured to ensure that console would not degrade from pressure or fluid motion and corrosion.