

FARAZ ARASTU

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SKILLS

Engineering Design	Proficient in linear stage design, microTorr vacuum design, composite mold design, Basic in hydraulic systems, feedback control
Hardware	Proficient with Arduino, motor electronics, vacuum systems
Software	Proficient in Solidworks, MATLAB, Python
Materials Processing	Proficient in fiber processing, composite manufacturing

RELEVANT EXPERIENCE

Lyding Group, Electrical Engineering, University of Illinois, Urbana, IL Oct 2016-Present

POETS Research

- Designed and built a high-pressure extruder for roll-to-roll production of carbon fiber.
- Designed and built an automated 2-axis stage for continuous fiber spooling.
- Manufactured carbon fiber-epoxy thermal interface materials (TIMs) for power transistors.

Applications Development, Myriant Technologies, Woburn, MA Aug 2015-May 2016

Chemical Engineer

- Constructed and operated 25-liter vacuum distillation apparatus to isolate a feedstock chemical.
- Developed electrolytic conversion of feedstock chemical to polymer precursor at 93% yield.

Surface Coatings Technology, Warner-Babcock Institute, Wilmington, MA Jan 2014-Dec 2014

Semiconductor Engineer

- Developed a fabrication process for four-fold semiconductor production.
- Designed a solid-state processing method to increase solar cell efficiency by 80%.

EDUCATION

University of Illinois, Urbana, IL

Candidate for PhD Materials Science and Engineering

May 2020 (*anticipated*)

Northeastern University, Boston, MA

Bachelor of Science in Chemistry

May 2015

Awards: Undergraduate Research Grant, Dean's List, Dean's Scholarship

LEADERSHIP

i2 Summer Camp, West Roxbury, MA

Jul 2015

Associate Teacher

- Led Arduino workshops to program Theremins, LEDs, and speakers with MATLAB.
- Facilitated workshops for 30 students to design Android apps and Scratch games.