

# David N Juboor

Philadelphia, PA | (267) 374-2849 | [DavidJ.today](http://DavidJ.today)

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## EDUCATION

### Drexel University

Philadelphia, PA B.S. in Chemical Engineering

**Cumulative GPA: 3.2**

(Expected) June 2018

## EXPERIENCE

### GlaxoSmithKline R&D

March 2017 - Present

Automation Engineer / Upper Merion, PA

- Developed machine learning pipelines for autonomous high throughput laboratory robotics
- Supported industry wide benchmarking manuscript for solid dispensing via unsupervised learning visualizations
- Utilized CNNs in Keras to reduce pre-formulation resources required for drug analysis by 500x

### Nanocrystal Solar Lab (Drexel University)

June 2016 - May 2017

Chemical Engineer / Philadelphia, PA

- Designed transimpedance amplifier to reduce sensor noise at the nanosecond scale
- Fabricated custom PCBs and integrated with surface mount components to reduce lab costs by \$4000
- Saved \$20,000 by testing and repairing broken centrifuge for use in suspension preparation

### Superoxide Dismutase Lab (Northampton Community College)

August 2014 - September 2015

Chemist / Northampton, PA

- Collaborated in group of 9 in research, synthesis, and assay of novel antioxidant compounds
- Synthesized novel antioxidant mimetics to increase biological solubility and performance
- Presented results at American Chemical Society (Lehigh Valley) conference in April 2015

## PROJECTS

### SpaceX Hyperloop Competition

January 2016 - January 2017

Finalist out of over 1,000 teams

- Worked with team of 110+ to manufacture Hyperloop pod tested at Hawthorne facility January 2017
- Designed, manufactured, and fielded custom autonomous robotics to aid navigation and control stages

### Oleoresin Extraction Unit

December 2013 - September 2015

Accumulated >\$15,000 in unit sales

- Designed and manufactured a passive solvent extraction method for small-scale laboratories
- Tested design efficacy and assessed minimal safety requirements for equipment use

## LANGUAGES AND SKILLS *\*Most familiar with*

Matlab\*   LabVIEW   Robotics\*   Spin Coating   Equipment Repair\*   HPLC   ProE\*   SolidWorks

## AWARDS & AFFILIATIONS

Poetry Grand Slam Champion, Villanova University Slam Poetry Competition, April 2016

Member, Princeton Data Analytics Group, Spring 2016

Member, University of Pennsylvania Polymer Group, October 2015

Member, American Institute of Chemical Engineers, September 2015

## INTERESTS

Parkour   Robotics   Table Tennis   Artificial Intelligence   Slam Poetry   Entrepreneurship

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### Blog:

[www.holdmyramen.com](http://www.holdmyramen.com)

### LinkedIn:

[www.linkedin.com/in/davidnjuboor](http://www.linkedin.com/in/davidnjuboor)

### GitHub:

[www.github.com/djuboor](http://www.github.com/djuboor)