

CURRENT ADDRESS

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OTHER ADDRESS

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OBJECTIVE

Obtain full time job or internship related to chemical engineering to apply material from coursework, grow work experience, analytical skills, and leadership abilities.

EDUCATION**University of Massachusetts Amherst**

Amherst, MA

College of Engineering, Commonwealth Honors College*Bachelor of Science in Chemical Engineering**Candidate, May 2019*

- Cumulative GPA: 3.7; Dean's List; Sponsorship to attend 2016 San Francisco AIChE conference; Abigail Adams Scholarship: Merit based tuition waiver; Commonwealth Honors College Research Grant
- Relevant courses: Thermodynamics, Kinetics, Fluid Mechanics, Heat and Mass Transfer, Separations, Process Controls, Process Design, Molecular bio, Programing in java, Microfluidic design/analysis, Scientific Computing

Hong Kong University of Science and Technology

Hong Kong

- 1 semester study abroad program, School of Engineering

*Spring 2017***WORK EXPERIENCE****Alnylam Pharmaceuticals**

Cambridge, MA

*Process Chemistry Intern**Summer 2016, Summer 2017, Summer 2018*

- Learned oligonucleotide synthesis and downstream processing including automated solid phase synthesis, HPLC purification, ultrafiltration, and lyophilizing. Learned analytical techniques including HPLC and LCMS.
- Ran synthesis and purification using different polymer supports and compared product purity and yield. Research was presented at the Biotech Innovation Organization conference by coworker.
- Wrote scalable synthesis method on Unicorn software and reagents preparation calculator in Visual Basic.
- Performed purifications on 1 inch column to optimize method for 22 inch column.

University of Massachusetts Amherst

Amherst, MA

*Teachers Assistant - Thermodynamics 2**September 2018 - Present*

- Hold office hours to help students with homework. Work out example problems in front of class during discussion session of class before each exam. Grade homework.

iCracked*Owner-operator*

- Own and operate a sole proprietorship repairing mobile devices and tablets
- Customer sales and service, repair of various electronic devices, inventory management, and accounting

REASERCH**University of Massachusetts Amherst**

Amherst, MA

*Undergraduate research, Perry Lab**September 2018 - Present*

- Designing and building microfluidic devices by photolithography and soft lithography to track protein folding using hydrodynamic focusing and smFRET.
- Received Commonwealth Honors College Grant to fund research for an undergraduate thesis.

University of Massachusetts Amherst

Amherst, MA

*Chem-E-Car competition, Team captain, 3rd place at 2018 AIChE regional conference**Spring 2018*

- Built car powered and stopped by chemical reaction to go a distance and hold a weight that is specified 1 hour before competition. Learned battery chemistry, Arduino programing, and 3D printing.
- 3rd place at 2018 AIChE regional conference. Qualified for 2018 National Conference competition.

SKILLS

- MS office • Matlab • Python (proficient) • Java • HPLC/LCMS • 3D printing • Electronics repair • RC circuits • Photolithography • microfluidics • Confocal and florescence microscopy

ACTIVITIES**American Institute of Chemical Engineers***Fall 2015 - Present*

- Attend regional and national conferences. Help organize networking events. Annual beer brew competition.

