

**NAME**  
(617) 432-8765  
student@gmail.com

## EDUCATION

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**Tufts University**, Medford, MA

May xxxx

*Bachelor of Science in Chemical Engineering*

**Relevant Courses:** Physical Chemistry of Polymers, Hazardous Waste Treatment Technology, Chemical and Biological Separations, Surface and Colloid Chemistry, Reactor Design, Data Structures, Process Dynamics and Controls

## ENGINEERING EXPERIENCE

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**Aramco Services Company**

May xxxx – Present

*Gas Separations Intern*, Cambridge, MA

- Separated gas molecules for experiments by casting membranes for post processing and characterization
- Experimented with various hollow fiber dopes and conditions by separating and testing membranes using the laserquadra knife
- Functionalized membranes using cross-linking techniques
- Investigated mechanical and thermal properties of various polymers by examining molecules utilizing various strength microscopes
- Conducted single gas tests for performance testing by running separated gas molecules through functioner machine

**Smart Polymers, Membranes and Separations Laboratory**

*Undergraduate Research Assistant*, Tufts University, MA

January xxxx – May xxxx

- Manufactured polymer membranes and dyes for filtration tests by using a staking polymer technique
- Collected and modeled diffusion rate data on different dyes utilizing a diffuser
- Synthesized zwitterionic copolymers for brackish water testing
- Characterized novel copolymer membranes using FTIR and TGA
- Tested frack wastewater flux and fouling resistance by using a frack measurer

**Bits Bytes & Bots**

*Instructor*, Anytown, NY

June xxxx – August xxxx

- Taught multiple classes involving Robotics, Game Maker, and Scratch by creating lesson plans and providing weekly instruction
- Guided 20-30 campers through their daily schedule and led fun social transition activities
- Solved any issues that arose between students and with the camp's computers by utilizing training in conflict resolution
- Created curriculum for other instructors to use in future classes by archiving lesson plans and assessments

**Marine Biotechnology Laboratory**

*Intern*, University of Connecticut, Stamford, CT

June – August xxxx

- Cultivated and gathered seaweed plants in labs and rivers carefully as to preserve the local ocean floor
- Investigated the fluorescence of ground seaweed using blue and black lights and tracked observations

## SKILLS

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**Lab:** Polymer synthesis, characterization, NMR, DSC, FTIR, TGA, DMA

**Computer:** Visual Basic, C++, Python, HTML and CSS

**Language:** Proficient Spanish