

# Frank Engineer

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## EDUCATION

**University of New Hampshire** – Durham, NH  
Bachelor of Science in Chemical Engineering

Expected: May 2020  
GPA: 3.83

- Dean's List: All Semesters
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## INTERNSHIP EXPERIENCE

**Lonza Biologics** – Portsmouth, NH  
Manufacturing Engineering Intern

May - August 2018, 2019; January 2019

- Worked in a Current Good Manufacturing Practice (cGMP) environment (The FDA's regulatory standard for pharmaceutical quality) with 4 members of the plant engineering team to support a pharmaceutical plant
- Wrote documentation to justify implementing equipment changes for process improvement purposes
- Successfully lead, organized, and completed a 1S7 piping replacement project in a sterile environment
- Wrote a Standard Operating Procedure and work instruction for the dismantling and cleaning of a centrifuge
- Performed steam in place (SIP) process commissioning runs on a Harvest Tank
- Utilized PI Process book software to trend process data, monitor processes, and troubleshoot issues

**Novo Nordisk** – West Lebanon, NH  
Engineering Intern

May 2017 - August 2017

- Led the execution of performance qualification testing on an incubator
  - Traced piping and instrument diagrams and identified missing components in the system
  - Drafted and executed a protocol, along with the test plans and report for the installation of new valves
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## RELATED EXPERIENCE

**Formula SAE** – Durham, NH  
Powertrain Team Member

August 2019 - Present

- Justify the use of E85 fuel as it relates to power and cooler engine temperatures
- Utilize Ricardo Wave software to run engine simulations and cross reference data with dynamometer testing
- Integrate a knock sensor into our engine control unit (ECU) set up
- Set up dynamometer and run dynamometer engine testing with 7 powertrain team members

**American Institute of Chemical Engineers** – Durham, NH  
UNH Chapter Co-President

May 2019 - Present

- Organize and run chapter events as well as weekly meetings with 5 executive board members
- Communicate with chapter advisor to reach goals set by the organization

**University of New Hampshire Chem-E Car Team** – Durham, NH  
Circuit Team Member

September 2017 - March 2018

- Collaborated with a team of individuals to create a small car that ran on a chemical reaction for competition
- Self-taught the skills needed to develop a circuit that turned off an electric motor when light hit a photo sensor

**Interfacial Phenomena Lab** – Durham, NH  
Lab Assistant, Microparticle Suspension Project

September 2016 - May 2017

- Created microparticles using a photolithographic process and trained a new lab member on the procedure
  - Constructed a suspension of the particles and analyzed its viscosity
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## PROFESSIONAL ORGANIZATIONS

**American Institute of Chemical Engineers (AIChE)**  
Member

September 2016 – Present

- Tutor one student twice a week in entry-level chemical engineering courses

**International Society for Pharmaceutical Engineering (ISPE)**  
Member

September 2016 – Present

- Attend annual ISPE Boston Product Show to increase awareness cutting-edge resources and technology in the field