

# Joseph Gelin

U.S. Citizen, Aerospace Engineer

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## EDUCATION

### Georgia Institute of Technology, Atlanta GA — *Candidate for Bachelor's Degree in Aerospace Engineering*

June 2019 - May 2023 (expected date)

- GPA - 3.44/4.0

### East Longmeadow High School, East Longmeadow MA — *High School Diploma*

August 2015 - June 2019

- GPA: 4.51/4 (weighted)
- Suma Cum Laude and Honors

## EXPERIENCE

### Pine Knoll, East Longmeadow, MA — *Lifeguard*

June 2017 - August 2020

- Monitor children and patrons in the water to maintain a safe environment
- Collaborate with other lifeguards to maintain a cohesive environment for maximum safety
- Maintain pool (mop floors, clean sinks, clean pool floor, maintain chlorine levels, maintain water levels)
- Lifeguard and First-Aid certified

### Georgia Tech CRC, Atlanta, GA — *Lifeguard*

November 2019 - March 2020

- Monitor patrons while they're swimming to maintain a safe environment
- Collaborate with other lifeguards to maintain a cohesive environment for maximum safety
- Maintain pool (mop floors, clean sinks, clean pool floor, maintain chlorine levels, maintain water levels)

## PROJECTS

### Subscale Power System — *Yellow Jacket Space Program (member)*

- Responsible for designing, modelling, prototyping, and testing a casing system that housed crucial power cells
- Developing the power architecture within the battery casing
- Work with team members to integrate batteries and casing into a subscale system consisting of circuit boards, battery pack and raspberry pi unit
- Communicated with members of other sub teams (Avionics) to better understand how to implement a solution that fits the overall team goal

## LEADERSHIP

### Yellow Jacket Space Program

Member: August 2020 - Present

- Member of the Structures sub-team
- Worked on the subscale power system with several other team members from the Avionics sub team
- Learn about different engineering materials
- Learn about the engineering design process in depth

### Ramblin' Rocket Club

Member: August 2019- Present

- Learned new programs such as SolidWorks and OpenRocket through collaboration with peers
- Applied newly acquired SolidWorks knowledge to manufacture parts
- Used OpenRocket to design a level 1, solid fuel rocket
- Learned steps of the design process
- Learned how to translate a design into a final product

## SKILLS

### **Manufacturing:**

Laser Cutter, 3D- printer, Machining, Dremel, Welding

### **Lab:**

Pipette, electronic scale, microscope, Bunsen burner

### **Programs:**

Solidworks, OpenRocket, Java, MatLab, vPython

### **Communication:**

Presentations, research papers, Microsoft Office

## LANGUAGES

English, Russian