Griffin C. Rahn

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Guggenheim School of Aerospace Engineering **Atlanta, Georgia**
Bachelor of Science and Master of Science in Aerospace Engineering Honors Program *Dec 2024*
- Certification in Astrophysics GPA: 4.0
- Georgia Tech Lorraine Study Abroad Program *May - Aug 2022*

UNIVERSITY OF NORTH CAROLINA, Department of Mathematics **Chapel Hill, North Carolina**
Dual Enrollment *Aug 2019 - Dec 2020*
- Enrolled at UNC-CH in high school to take multivariable calculus and differential equations GPA: 4.0

PROFESSIONAL EXPERIENCE

Georgia Tech Aerospace Engineering Laboratory **Atlanta, Georgia**
Student *Jan - December 2022*
- Used static pressure taps, a capacitance-based transducer, load cells, and both static and traverse pitot probes to model the surface pressure distribution, wake, and boundary layer of an airfoil in a subsonic wind tunnel, as well as aerodynamic coefficients
- Designed and manufactured a slotted flap for a test airfoil to measure its effect on aerodynamic performance in a subsonic wind tunnel
- Tested beams to determine Young's Modulus, Poisson's Ratio, and effective beam stiffness by measuring force and displacement-deflection behavior through a rosette strain gauge configuration

Yellow Jacket Space Program **Atlanta, Georgia**
Engine Development Engineer/Project Lead *Jan 2022 - Present*
- Lead a four-person team to design and build a portable sensor test stand capable of testing K-type thermocouples, pressure transducers, turbine mass flow meters, differential pressure sensors, and solenoid valves
- Utilized modeling software such as SolidWorks and Visio to design the system and present it to leadership
- Worked on propulsion sub-team to develop a test stand capable of performing full-scale hot fires
- Participated in PDRs and work sessions at North Avenue Research Area and Dekalb-Peachtree Airport

Georgia Tech Aerospace Systems Design Laboratory **Metz, France**
Research Engineer *May - August 2022*
- Utilized Python to simulate an in-orbit relay communications network and propagation system, which is set to be used by Open Space Makers, an initiative from the CNES
- Applied class-orientation and orbital mechanics to initialize various orbit types and calculate the motion of satellites
- Enhanced program from a single orbit-type input to a vast constellation network, preparing it for professional applications

LEADERSHIP

Exchange Pool Swim Club **Chapel Hill, North Carolina**
Lifeguard Manager and Certified Pool Operator *May 2018 – Aug 2021*
- Earned multiple promotions throughout four summers as a lifeguard
- Oversaw a staff of 20 and a team of 3 guards when on duty
- Became proficient in balancing a dynamic chemical system capable of housing hundreds of patrons daily

SKILLS/INTERESTS

Design: SolidWorks – Intermediate, Visio – Proficient, Open Rocket – Proficient, PowerPoint – Proficient
Analysis: Python – Intermediate, MATLAB – Proficient, XFOIL – Proficient, GASEQ – Proficient
Manufacturing: GT AE Machine Shop, Mill-Turn, Lathe, Water Jet Cutting, Laser Cutting,
Languages: English – Native, French– Intermediate
Interests: Music Production, Guitar, Fashion, Hiking, Product Design,
Activities: Yellow Jacket Flying Club, Georgia Tech Astronomy Club, Phi Gamma Delta, AIAA

AWARDS/HONORS

Awards: Dean's List 4 semesters, National Merit Semi-Finalist, Valedictorian Cum Laude Society, AP National Merit Scholar
Honors: Sigma Gamma Tau (Aerospace Engineering Honors Society), Faculty Honors 4 semesters