Cameron Eure

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EDUCATION

Georgia Institute of Technology | Atlanta, GA Jan 2022- May 2024 (Expected)
Bachelor of Science in Aerospace Engineering (BSMS Program) GPA: 3.2/4.0
Minor in Physics

Kennesaw State University | Kennesaw, GA [Transfer] Aug 2020-Dec 2021
Bachelor of Science in Mechanical Engineering GPA: 3.8/4.0
Minor in Aerospace Engineering, Minor in Physics, Honors College

EXPERIENCE

NASA Ames Research Center Aeromechanics Branch | Moffett Field, CA Jun 2023 –Aug 2023

- Worked as a research associate on conceptual design for a crewed rotorcraft to be operated on Mars.
- Tested and optimized rotorcraft configurations through the implementation of nearly 1000 lines of MATLAB code.
- Identified the minimum power required for various helicopter configurations in hover flight.
- Designed mission using moon architecture relation and viewed possible protocols for final conceptual design.
- Derived helicopter dynamics and investigated possible usable airfoils with desired material configuration for blades.

Aerothermodynamics (AE 4080) Undergraduate Teaching Assistant August 2023-Present

- Assisting 70 students in a senior level Aerospace Engineering course with grading and feedback for coursework.
- Translating gas equilibrium library written in C++ into MATLAB for ease of use.

RESEARCH

High-Power Electric Propulsion Laboratory (HPEPL) Jan 2023-Present

- Worked on creating LabVIEW VIs to automate power supply voltage and current for electrode structure.
- Assisted in assembling desiccator boxes by utilizing pressurized nitrogen gas tanks.

PROJECTS

Circuits & Instrumentation (ECE 3710) Final Project April 2022

- Coded an Arduino for assembly of an altimeter. Readings were logged and displayed live on an LED display.

Aerothermodynamics (AE 4080) Final project November 2022

- Wrote MATLAB code to calculate stagnation point heating of a hypersonic vehicle at various supersonic speeds and calculate aerodynamic coefficients for a set of given angles of attack.

STUDENT-LED ORGANIZATIONS

Students for the Exploration and Development of Space @ Georgia Tech President June 2023-Present

- Coordinated community outreach and organization affairs to recharter chapter of national organization.

Georgia Tech Astronomy Club Public Relations Officer May 2023-Pressent

- Working on public engagement with the Georgia Tech community and running social media accounts.

Yellow Jacket Space Program (YJSP) Propulsion Sub-team Jan 2022-Present

- Worked on specking OCK and other various parts to assist in LOX processing.
- Working on feed system simulation using Simscape and Simulink.

SKILLS

Software: MATLAB, SolidWorks, MS Office, Adobe Premier Pro, Arduino, Latex, Mathematica, Python, C++, RotCFD, AFTGen, Simulink, Simscape. MATLAB App designer, Siemens NX, Labview, ANSYS STK.
Machinery: Power Tools, Lathe, Water Jet, Mill, 3D Printing.
Languages: English (Native), French (Proficient), Japanese (Elementary).
Courses: Aerodynamics, System Dynamics, Controls, Vehicle Performance, Aerothermodynamics (Hypersonics), Circuits & Electronics, Material Science, Jet & Rocket Propulsion, Orbital Mechanics.
Interests Propulsion, Electric propulsion, Thermal systems, Hypersonics, Entry Systems, Numerical Methods, Space Exploration and Mission Development.

MEMBERSHIP

- **Phi Kappa Tau Fraternity –** *Social Chair*
- **Georgia Tech Interfraternity Council –** *Vice President of Programming*
- **Georgia Tech Supersonics Club**