MVFT

FALL 2020 RESUME BOOK

FULL-TIME - ALL RESUMES

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Cameron S. Gable

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Present Address
1807 Willowtree Lane
Apartment 4B7
Ann Arbor, MI 48105

Permanent Address
14816 Farmwood Court
Spring Lake, MI 49456

Education

University of Michigan, Ann Arbor, MI — August 2017-Present
College of Engineering
B.S.E. Aerospace Engineering
Current Year: Senior, Expected Graduation May 2021

Work Experience

Shape Corp, Grand Haven, MI — May 2019-August 2019
Employer: Ed Szymanski, Manufacturing Engineer-Lead
Phone Number: (616) 402-4643

Position: **Engineering Intern** — May 2019-August 2019
Description:

- Worked to make the factory floor safer and more efficient
- Dynamically communicated between multiple teams to complete projects on schedule
- Learned to use Solidworks in the workplace to create professional drawings for manufacturing
- Completed over forty projects during my employment
- Praised for my superb communications skills, work ethic, and efficiency in the workplace
- Developed the necessary soft skills to work efficiently as a team

Leadership

- **Michigan Vertical Flight Technology (MVFT)** — January 2018-Present
  - Position: Co-Founder, Design Team Lead, Design Team Mentor
  - Description:
    - Beginning Fall 2020 I shifted from the role of Avionics team lead to avionics mentor. I am helping to train the new Avionics team lead and ensure the knowledge gained over the last three years is not lost.

Technical Skills

- **CAD**
  - Proficient in Solidworks (Spring 2019) and Autodesk Fusion 360 (Fall 2013)
- **Coding**
  - Proficient in Matlab (Fall 2017) and C++ (Winter 2018)
- **Machine Shop Certified**
  - University of Michigan Wilson Center Basic II Certified (Fall 2017)
- **Pilot Training**
  - Student Pilot Certification (Fall 2020), Private Pilot's License (Expected Winter 2021)

S E R G I O R A M I R E Z S A B O G A L

5205 Kensington Cir, Coral Springs, FL 33076 • 954.309.3158 • sramire@umich.edu • **US Citizen**

Education

University of Michigan — **Ann Arbor, MI**

Bachelor of Science in Engineering in Aerospace Engineering — *May 2021*

Minor in Mathematics — *GPA: 3.5/4.0*

Coursework: Aircraft Dynamics, Thermodynamics, Aerospace Propulsion, Solid Mechanical and Aero Structures, Aerodynamics, Programming and Data Structures, Dynamics and Vibrations, Electric Circuits

Honors & Awards: Engineering Dean's List, University Honors

Skills

Python (Advanced), MatLab (Advanced), Simulink (Intermediate), C++ (Intermediate), Cameo Systems Modeler (Intermediate), MS Suite (Advanced), ANSYS(Intermediate), Catia (Basic), StarCCM+ (Basic), English & Spanish (Fluent, Bilingual)

Experience

Blue Origin, LLC — **Kent, WA**

HLS Systems Engineering Intern — *Sept. 2020 – Present*

Northrop Grumman Space Systems — **Dulles, VA (Remote)**

HLS Mission Systems Engineering Summer Intern — *May 2020 – Aug. 2020*

- Building and maintaining system block diagrams for analysis in Cameo for all HLS Transfer Element physical systems
- Maintaining power and mass budgets for HLS Transfer Element
- Implementing MBSE to develop single source of truth for all TE technical budgets through Cameo
- Generating mission timeline for all relevant phases and mission events from transition to vehicle power to disposal from LLO

University of Michigan, College of Engineering — **Ann Arbor, MI**

Applied Nonlinear Dynamics of Multi-Scale Systems Lab — *Nov 2019 – April 2020*

- Developed tool to properly analyze bladed disk mistuning after changes made to blade leading edge or trailing edge
- Focused on integration of proprietary codes and methods into unified code package for commercial applications

General Electric Aviation — **Evendale, OH**

Aeromechanics Engineering Intern — *May – Aug 2019*

- Developed Python tool to automate fatigue assessment of non-synchronous vibrations through GageMap for GE9x
- Contributed to $150,000 in estimated annual cost savings of engineering time for non-synchronous vibration analysis
- Performed break-in of mistuning analysis tool with high-pressure compressor for next generation advanced combat engine
- Lead tools development for new design methods working with international and US-based tools teams
- Created Aeromechanics test tool to plot engine test data with capability to run on-site for live aeromechanics analysis

Leadership

Sigma Gamma Tau – National Honor Society in Aerospace Engineering — **Ann Arbor, MI**

President — *Dec 2019 – April 2020*

- Lead executive board to aid members in meeting personal, academic, professional, and outreach goals
- Ensured stability and longevity of organization and promote effective communication among executive board

Michigan Vertical Flight Technology — **Ann Arbor, MI**

Operations Lead — *Aug 2019 – Aug 2020*

- Lead all operations including scheduling, system integration, sourcing, member retention and budget planning
- Created MVFT Industry Advisory Board which includes representatives from Ford, SkySpecs, Hermeus, ASX, and Siemens
- Developed course on systems engineering and project development with Prof. George Halow and other student leaders

Society of Hispanic Professional Engineers — **Ann Arbor, MI**

Secretary — *April 2019 – April 2020*

- Managed communications for organization
- Lead Media Team in use of social media, website, and other communication outlets

Other Activities

Sigma Gamma Tau National Honor Society in Aerospace Engineering — *Jan 2019 – Present*

Women in Aeronautics and Astronautics — *Sept 2019 – Present*

AIAA Student Chapter — *Jan 2019 – Present*

Michigan Archery Club, Treasurer — *May 2020 – Present*

This concludes the resume book. For additional information, please reach out to mvft.leads@umich.edu. Thank you for your time.