**Zachary A. Flegle**

(404) 790-1309 • [zflegle3@gmail.com](mailto:zflegle3@gmail.com) • Cincinnati, OH 45202

**PROFESSIONAL SUMMARY**

2-3 sentences with professional highlights that will help me succeed in role and help company

* Most important skills,
* Review job description
* Total years and experience relevant to the role,

**PROFESSIONAL EXPERIENCE**

**Proctor & Gamble Cincinnati, Georgia**

***Associate Scientist – Feminine Care Nonwovens Global Material Developer February 2021 – Present***

* Serve as the spunbond and cotton topsheet technology owner and support the product team through developing innovative nonwoven materials in order to improve competitive market advantage of premium feminine pads
* Manage the research, development, and implementation of 4 new nonwoven material projects with suppliers, production sites, and product teams to provide $2 million in net savings per year and mitigate supply chain risks caused by COVID 19
* Maintain material specifications, supplier lab records, and research reports for 8 materials between 4 global suppliers
* Conduct mechanical, sensory, and fluid handling research to relate material performance to human product interaction and employ strong presentation skills to share findings to product stakeholders
* Support positive department culture through organization of onsite and offsite events

**Gulfstream Aerospace Savannah, Georgia**

***G700 & New Programs Operations Engineer II July 2018 – December 2020***

* Served as the process owner for the aft section of two new startup aircraft programs to optimize aircraft production, improve DFM, and provide the highest quality product for Gulfstream customers
* Supported aircraft production operations, developed new manufacturing plans, maintained PLM documentation, and implemented innovative manufacturing strategies to improve the fabrication of new aircraft programs
* Lead design reviews with cross functional teams to analyze and enhance the design and manufacturability of over 200 engineering models
* Identified discrepancies in the aft longitudinal splice design and collaborated with a cross functional team to redesign the structures resulting in an an annual cost savings of $126,000 per aircraft program per year
* Lead a team of engineers to implement a production conformity software which resolved over 300 discrepancies and ensured proper engineering configuration

***G650 Final Line & Composite Manufacturing Co-Op January 2017 – December 2017***

* Developed and fabricated over 30 tooling products for a wide range of aircraft fabrication applications using rapid prototyping techniques such as 3D printing
* Researched and redeveloped fabrication processes of 5 composite parts through ergonomic studies
* Applied aircraft structures and EWIS training through a month long production floor rotation while aiding in structural fabrication and electrical systems testing of three G650 Aircraft

**McKenney’s Inc. Atlanta, Georgia**

***Interiors and Special Projects Intern January 2015 – May 2015***

* Supported management of projects by overseeing proposals, budgeting, labor, and materials for over 20 mechanical contracting projects including, Intercontinental Exchange and Ponce City Market
* Assessed labor and material requirements from engineering blueprints and developed proposals for over 30 mechanical contracting projects

**EDUCATION**

**GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, Georgia**

***Bachelor of Science in Mechanical Engineering* *August 2013 – May 2018***

* Analyzed the effect of phase change material (PCM) concentration on the thermal and mechanical performance of thermally modulating fibers for implementation in the construction, clothing, and other industrial applications
* Developed the electronic systems of an autonomous vehicle to navigate and complete objectives using LIDAR
* Modeled, analyzed, & optimized the structural & aerodynamic design of a formula SAE motor vehicle using FEA

**The Odin Project Atlanta, Georgia**

***Full Stack Web Development*  *February 2022 – August 2022***

* Course Information

**ACTIVITIES AND LEADERSHIP**

**Gulfstream Aerospace Savannah, Georgia**

***Operations Engineering Co-Op Program Steering Team Member*  *November 2019 – Present***

* Recruited & interviewed prospective students at career fairs to grow and develop the Engineering Co-Op Program
* Lead a professional development program to teach professional skills to engineering students while, giving them opportunities to implement these skills on a daily basis

**Yellow Jacket Flying Club Atlanta, Georgia**

***Private Aircraft Pilot*  *August 2017 – Present***

* Earned Private Pilot License in December of 2018 and have logged over 90 hours of flight time

**Yellow Jacket Space Program (YJSP) Atlanta, Georgia**

***Structures Engineer May 2016 – May 2017***

* Design and analyzed the structures of the Karman 1 Rocket with a team of peers to, intended to be the first university built rocket to be launched above the Karman Line in 2018
* Created technical documentation including structural testing procedures for the Karman 1 Rocket thrust structures
* Performed FEA on various substructures to enhanced the structural performance of the Karman 1 rocket thrust structure

**Phi Gamma Delta Fraternity Atlanta, Georgia**

***Promotional Materials Developer******August 2013 – May 2016***

* Designed garments and other promotional items while managing the production schedule and finances with both vendors and customers
* Performed marketing surveys and implemented findings into future product development opportunities

**PROFESSIONAL SKILLS**

**Manufacturing:** Aircraft Structures, EWIS, Composites, Laser Cutting, Machining, Woodworking, 3D Printing, Nonwoven Fabrics, Product Development, Materials Research,

**Languages:** Spanish – 5 years of experience, French – Elementary

**Software:** CATIA V5, Microsoft Office & Excel, Solidworks, Siemens Nx, Solumina, SmartTeam, SAP, Enovia, Nexus, JMP

**Programming:** Arduino, LabVIEW, MATLAB, National Instrument myRIO, Python

\*\* ENOVIA, Nexus, PLM

**TIPS:**

* **Update resume based on keywords from job role (experience and summary)**
* **Only include ~5 skills applicable to role**