

Carter Stockman

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EDUCATION

AUBURN UNIVERSITY

BE IN MECHANICAL ENGINEERING

August 2025 GPA: 3.13

PRATTVILLE HS

Valedictorian GPA: 4.61

PROJECTS

Lunabotics
8-bit Computer
Custom SCARA Robotic Arm
IMS Simulation
Mini Golf Robot
Support Bracket Optimization

SKILLS

HARDWARE

Design:

Inventor • Solid Edge • SolidWorks •
Ansys Workbench • VBA • Matlab

Manufacturing:

Inventor CAM • Lightburn • OrcaSlicer •
IntelliMAX • Vanilla G Code

PROGRAMMING

Languages:

C++ • Java • Matlab • Python

Development Environments:

Visual Studio • vi • PyCharm • ROS

COMMUNICATION

Git • LaTeX • Illustrator • Canva

COURSEWORK

HARDWARE

Applied Mechatronics
Navigation & Guidance
System Dynamics and Controls
Machine Design
Computer Aided Engineering

PROGRAMMING

Software Construction
Discrete Structures

WORK EXPERIENCE

PREMIER TECH SYSTEMS AND AUTOMATION |

MECHANICAL ENGINEERING TRAINEE

May 2024 – August 2024 | Montgomery, AL

- Primary Engineer on live-order projects totaling \$750K
- Performed FEA in Solid Edge to verify mandated safety factors were met
- Performed stress-life analysis to downsize multiple shafts and bearings
- Calculated flow rate & desired performance characteristics to appropriately size pneumatic components and update/create schematics
- Worked closely with electrical team to reduce component cost, improve wire routing, and maximize standardization across machine options.
- Created 100's of drawings and maintained good reject rates

SOUTHEASTERN CENTER OF ROBOTICS EDUCATION |

PROGRAM ASSISTANT

October 2021 – Present | Auburn, AL

- Apply lean manufacturing principles to save over 200 hours of employee time
- Design and manufacture parts to run events and maintain office operations
- Produce robotics education curricula for use in multiple school districts
- Introduce >1000 students to robotics & engineering

LEARNING SOUP, LLC | Co-FOUNDER

April 2020 – Present | Prattville, AL

- Creating curricula for grades K-8 that meet Alabama Computer Science standards & planning to implement in schools next school year
- Developed summer lessons for 20+ high school students weekly, covering topics including CAD basics, PID controller programming, and mechanics
- Quote, design and fabricate parts to meet customer criteria and constraints
- Create custom profiles and maintain printers for optimum performance

MARION MILITARY INSTITUTE, FREELANCE | TUTOR

January 2020 – Present (Seasonal) | Marion, AL

- Give in-person ACT lessons to 120 Community College students to help them attain scores necessary to attend service academies
- Give one-on-one math, physics, and Matlab lessons and generated plans of action, enabling students to achieve grade improvements of over 25%

RELEVANT EXPERIENCE

AUBURN ROBOTICS CLUB | Team Leader, Combat Robotics Founder

- Wrote and received grant and led project to acquire \$10,000 in funding
- Design, build, program on team ranked in top 5 globally
- Recruited 20+ students to form Auburn's first Combat Robotics Team
- Designed arena to host combat events at Auburn

BOY SCOUTS OF AMERICA | Eagle Scout, Order of the Arrow

- Coordinated and oversaw weekly meetings and campouts for 1 year as SPL
- Constructed, sanitized, and delivered > 300 face shields to local hospitals
- Troop 25 Scout of the Year 2019