

Trevor A. Babb

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U.S. Citizen

EDUCATION

Orange Technical College Orlando, FL
CNC Production Specialist Certification
GPA: 4.00/4.00 August 2018 - May 2019

University of Central Florida Burnett Honors College Orlando, FL
Bachelor of Mechanical Engineering
Bachelor of Computer Engineering
Minor in Mathematics
GPA: 3.74/4.00 August 2019 - Present

NOTABLE COURSES

Honors Calculus III with Analytical Geometry Differential Equations
Honors Dynamics Computer Science I, II

SKILLS

Applications: SolidWorks, CAMWorks, PTC Creo, Autodesk Inventor, Simplify3D, Microsoft Office, Visual Studio, MTS, OpenRocket
Programming Languages: Python, Java, C, C#, G-Code

PROJECTS

CAMWorks Technology Database Wizard Summer 2021

- Programmed Windows Forms application using C#
- Automated SQLite database manipulation to transfer data between CAMWorks Technology Databases
- Successfully deployed to CAMWorks developers for testing and have begun selling seats

Machining Fixture Automation via SolidWorks Equations Summer 2020

- Standardized vise jaw and fixture plate design to improve repeatability and efficiency of workholding deployment to the shop floor
- Created easy-to-use XML interface to allow programmers to quickly adjust dimensions
- Programmed an algorithm to automatically calculate the work coordinate system without probing on the machine

Robots, FIRST Robotics Academic Year, 2007 – 2019

- Designed robots using CAD systems such as PTC Creo, Autodesk Inventor, and SolidWorks
- Programmed machined components using Autodesk HSM CAM
- Programmed robots using Java via Android Studio

WORK EXPERIENCE

Manufacturing Engineering Intern Metal Essence, Inc. January 2019 – Present

- Design, program, fabricate, and deploy fixturing solutions for component manufacture (used in aerospace, defence, and automotive industries)
- Create automation solutions to decrease drawing to finished component time

LEADERSHIP

Mechanical Lead Exploding Bacon FRC 1902 January 2019 – April 2019

- Lead mechanical engineering subteams to design and build competitive robot in six weeks
- Handled component fabrication and acquisition to meet tight deadlines
- Coordinated engineering support for robot systems during competition deployment

HONORS

- President's Honor Roll Certificate Summer 2020
- Dean's List Fall 2019, Spring 2020, Fall 2020, Summer 2021