

Thomas Bivins

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EDUCATION

University of South Florida

Tampa, FL

Bachelors in Computer Engineering (3.61)

August 2019 – May 2022

- Dean's List
- Relevant Coursework: Computer Programming, Computer Logic Design, Electrical Systems Analysis, Electrical Engineering, Engineering Communications/Writing, Misc. Laboratory Work, Control of Mobile Robots w/ Python, Computer Architecture, CMOS-VLSI Design, Analysis of Algorithms, Database Design, Brain-Computer Interfaces

Pasco-Hernando State College

New Port Richey, FL

Associate in Arts with Honors (3.77)

August 2017 - July 2019

- Dean's List

PROFESSIONAL EXPERIENCE

Research Assistant, USF Computational Sociodynamics Lab

September 2021 – May 2022

- Assisted in web design for the USF CSD Lab for the purpose of testing a custom algorithm for delivering reliable information to Twitter users
- Backend – Python, Flask, AWS
- Frontend – React.js, HTML, CSS
- <https://sites.google.com/view/usfcsdl>

SWE, Naval Air Warfare Center, Training Systems Division

August 2022 – Present

- Currently working in the design / acquisitions of various training systems for the US Navy, including those for the AH-1Z Viper and UH-1Y Venom
- Model Based Systems Engineering, SysML, Python, MATLAB
- <https://www.navair.navy.mil/nawctsd/>

PROJECTS

Discord Music Bot

- Wrote a bot for the video chat software Discord designed for the purpose of listening to music with friends present in a voice call
- <https://github.com/thomasbiv/vibebot>

Twitter “8 Ball” Bot

- Wrote a bot for the social media platform Twitter designed to reply with a random 8 Ball fortune to anyone that mentions the bot with the correct syntax
- <https://github.com/thomasbiv/8BallBot>

8x8 SISO CMOS Multiplier

- Worked in a group to develop a functional 8-bit multiplier layout in the Cadence Virtuoso design environment using components all made from scratch for the CDA4213 CMOS-VLSI Design final project (Grade on project: A)
- <https://github.com/thomasbiv/CMOS-VLSI-Final-Project>

Mock Pet Adoption Clinic Web Service

- Worked in a group to develop a mock website and database schema for a pet adoption clinic that would store pets, customers, and employees in a PostgreSQL database. Website frontend was built in React.js and was developed for the COP4710 Database Design Final Project (Grade on project: A)
- <https://github.com/thomasbiv/COP4710-Final-Project>

CIGI Packet Interpreter – Project for CAE (Canadian Aviation Electronics)

- Worked in a group to deliver a specialized network diagnostic tool for the purpose of monitoring traffic between CAE's flight simulators and their internal computers. The tool ingests CIGI capture files, parses them, and displays the information within in a readable and graphical format for the purpose of in-depth error analysis. Project was developed for the CIS4910 Senior Project final project (Grade on project: A)
- <https://github.com/1449Antonio/Senior-Project-CIGI-Packet-Tool>

VOLUNTEERING

Rho Kappa Social Studies Society – Fivay High School

- Volunteering including neighborhood cleanup and activity planning
- Organization of schedules and club funds

Journalism Program – Fivay High School

- Leading journalism and broadcasting activities across state
- Organized journalism program on campus
- Received awards for journalism projects from Florida Scholastic Press Association

Student Council (Brief) – Pasco Hernando State College

- Discussed and planned possible on campus activities

ACHIEVEMENTS

- Top 10 Percent Scholarship (2018)
- Florida American Legion Boys State Alum (2016)
- Graduated Summa Cum Laude at Fivay High School (2017)

SKILLS

- 6+ years of experience using Microsoft systems such as Word and PowerPoint
- 5+ years of experience using Google Drive operations such as Slides, Documents, and Calendar
- 3+ years of experience with Python, C, C++, and Java programming languages