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Dominic Benintendi

EDUCATION

Ohio University   Athens, OH
B.S. Computer Science (3.9)   Completed May 2022
B.S. Electrical Engineering (3.9)   Completed May 2023
M.S. Computer Science (4.0)   Expected May 2025

WORK EXPERIENCE

Ohio University   Athens, OH
Graduate Researcher   *Aug 2022 – Present*

- Conducted research on machine learning-based antenna calibration for health monitoring applications
- Designed experimental frameworks in Python and MATLAB; validated performance through hardware testing
- Published a peer-reviewed research paper

Ohio University   Athens, OH
Adjunct Professor   *Jan 2022 – Jan 2023*

- Created and taught a senior-level compilers course; developed curriculum and materials from scratch
- Designed Rust-based assignments focused on parser and lexer development
- Led lab sessions on embedded systems programming in C and assembly

Rescon   Remote
Intern   *Aug 2021 – Aug 2022*

- Developed next-generation reservoir computing models for autonomous drones using TensorFlow and scikit-learn
- Integrated AI systems with PX4 firmware on MODALAI drones for GPS-denied navigation

PROJECTS

- **Laser Light Show — Lead Software Engineer**: Developed a C++ laser projector gaming system; awarded first place at the university student expo
- **Home Server**: Built and maintained a home server stack with Docker and TrueNAS; self-hosted services like Nextcloud, Plex, Gitea, and NGINX reverse proxy
- **Andromeda Networks**: Founded a Garry's Mod game server called Andromeda Networks in 2019; Deployed a custom-coded server with over 6,000 lines of backend Lua scripts to a remote server; led and managed a staff team

LEADERSHIP AND INVOLVEMENT

- **Tau Beta Pi (Engineering Honor Society) — Treasurer**: Oversaw finances, prepared reports, and coordinated chapter events

AWARDS

- **Sensor Engineer of the Year**: Awarded to the senior with the highest GPA in the Russ College of Engineering
- **Student Expo First Place**: Won for Laser Light Show senior design project; competed against the entire senior class of the Electrical Engineering Department

SKILLS

Coding Languages: C/C++, C#, Python, JavaScript (w/ JQuery), HTML, CSS, Lua
Software Tools: Docker, Kubernetes, Git, MATLAB, Simulink, MySQL/MariaDB, Apache/Nginx, NeoVim
Operating Systems: Windows, Linux, FreeBSD
General Skills: Network IT, Fullstack Development, Machine Learning, Project Management, Video Editing (Premiere, After Effects)