


BARTOSZ STOPPEL

Computer Engineer

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OBJECTIVE

Career focusing on experience with a broad range of microcontroller testing and interest in cybersecurity.

EDUCATION

Purdue University

08 2019 – 05 2023

Bachelors Degree

West Lafayette, IN

Experience

Navy

07 2023 – Current

Computer/Electrical Engineer

Crane, IN

- Classified

Purdue University

09 2021 – 05 2023

Undergraduate Teaching Assistant

West Lafayette, IN

- Assisted in leading labs for Introduction to Digital Systems and Design.
- Taught Verilog, debugged circuits, and hosted office hours in the evening.

Complete Structural Consulting Inc.

05 2022 – 08 2022

Software Engineer Intern

Fishers, IN

- Developed a software that would take barndominium parameters (eave height, roof pitch, etc.) and generate steel framing for the building.
- Replaced XCAD and adapted it to the company's project areas with this software.
- Wrote packages using the generated steel framing that included AutoCAD drawings, shop/build lists for market orders, and numerous PDFs that included all the load calculations for each part.

PROJECTS

BB8 (Beep Baseball)

09 2021

- Headed the hardware engineering for a team in charge of making a prototype baseball for visually handicapped individuals.
- Led the magnetic switching team that would enable speakers to indicate ball location for the player.
- Implemented the modern wireless charging method known as "Qi Charging Protocol" to make the ball completely wireless.

MIDI Polyphonic Synthesizer

11 2021

- Took input from a MIDI device and was able to effectively synthesize the input MIDI signal with multiple different voices and volumes while adding pitch bending and fading.
- Coded the STM micro-controller so that it would accept and process MIDI input.
- Designed the circuit on EasyEDA and created the printed circuit board through JLC PCB.

Augmented Reality Table Tennis (aka R.A.C.H.E.L.)

05 2023

- Created an interactive way to play table tennis by using a projector to display creative mini-game objectives onto a table while tracking a ball with a depth sensor.
- Finished the schematic and PCB layout for our MCU, ordered parts, and worked on blob detection using OpenCV.
- Ended up winning Purdue's Spark Challenge and project description is on my teammate's website at www.jacktmeyers.com/engineering/rachel/.

COURSEWORK / SKILLS

- | | | | |
|------------------|----------------|-------------------|------------------------|
| • Algorithms | • Data Science | • Microprocessors | • Software Engineering |
| • Cyber Security | • Compilers | • PCB Design | • Computer Networks |

TECHNICAL SKILLS

Programming Languages: C#, Python, C, C++, Verilog, Matlab, Assembly Code, LaTeX, Java
Developer Tools: VS Code, PyCharm, IntelliJ, TeXworks, Eclipse, AutoCAD API, KiCAD, Altium
Technologies/Frameworks: Linux, GitHub, Git, WPF
Spoken Languages: English, Polish