

Brandon Kupczyk

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EDUCATION

Marquette University

Bachelor of Science in Computer Engineering

Cumulative Major GPA: 3.4

Milwaukee, WI

Expected May 2018

EXPERIENCE

Researcher in the Marquette Embedded Systems Lab

Undergraduate Researcher

Milwaukee, WI

June 2017 to present

- Utilized OpenCV to parse a video stream and applied the Viola-Jones computer vision algorithm to each frame via a parallelized architecture
- Attaining in-depth knowledge of the C++ and Cuda languages

Siemens R&D Co-Op

Software Development / Installation

Hoffman Estates, IL

January – December 2016

- Utilized Microsoft's WPF in C#/XAML to develop tools that monitored and edited system communications and visualized logs
- Used TFS to branch/merge migrations and manage builds for installations
- Worked with developers to design and implement frontend and backend code
- Identified and debugged problems in a large/complex code base that improved problem solving techniques

University Experiences

Marquette Univ.

Milwaukee, WI

Fall 2013 to present

- Written quality code in embedded C to control an NXP based Microcontroller
- Written C to build the Xinu operating system
- Utilized Python to clean and analyze data for network and data science applications which resulted in unique findings
- Developing a Raspberry-Pi based Data Acquisition system for Marquettes's SAE Baja car, utilizing analog and digital sensors
- Working as a Student ambassador for the College of Engineering assisting with ongoing prospective student visits, including leading tours of Engineering Hall and writing follow-up communications

OVERVIEW & ACTIVITIES

Technical Overview

I.T. / Computer Skills

- Skilled in C, C++, C#, Java, Python, Git, and TFS
- Experience with OpenCV, Cuda, Pandas, scikit-learn, and multi-threaded application design
- Built and problem-solved computers with different operating systems including Windows, Linux and macOS

Current activities: Outdoor enthusiast & Vice President of the Marquette Rock Climbing Club

GitHub: <https://github.com/bkupz/>