

BRENDAN FERRACCILO

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PROFESSIONAL SUMMARY

A young, passionate developer and engineer with extensive experience both inside and outside the classroom working on my own and in teams with robots, websites, applications, and more.

EDUCATION

University of Michigan – Dearborn	Dearborn, MI
Bachelor of Science in Engineering – Computer Engineering	April 2019
Senior	G.P.A. 3.87

Relevant Coursework:

Computer Methods I (C/C++) (ECE 270)	Digital Systems (ECE 273)
Advanced Software Techniques (C++) (ECE 370)	Computer Architecture (ECE 375)
Discrete Mathematics (ECE 276)	Embedded Systems (ECE 473)

HONORS AND AWARDS

UM-Dearborn Chancellor’s Scholarship (full scholarship for 8 semesters)
Top 10% of my class at Divine Child High School

RELEVANT SKILLS

Skills: Application Development, Web Development, Troubleshooting, Problem Solving
Classes: Computer Architecture, Microprocessors, Discrete Math, Differential Equations
Programming Languages/Frameworks: Robot Operating System (ROS), C/C++, Arduino, Processing, C#, VB.NET, ASP.NET, ASP.NET Web API, Microsoft SQL, JSON, JavaScript, AngularJS, HTML 5, CSS, Bootstrap, Python, HCS12 assembly, SystemVerilog, OVM
Software: Windows, Linux, Raspberry Pi, Visual Studio, Visual Studio Code, Git/GitHub, Code Blocks, Xilinx

WORK EXPERIENCE

Intel Corporation – Hillsboro, OR	5/2018-8/2018
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Pre-Silicon Validation Internship

- Built and supported internal validation tools for a major Intel project.
- Worked with team members to learn about Intel validation tools and techniques.

Automated Media, Inc. – Redford, MI	6/14–8/14, 5/15–8/15, 5/16–8/16, 5/2017-8/2017
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Web Application Developer (Full-stack)

- Built new microservice-based WebAPIs for global Ford websites using C# and MongoDB
- Actively supported global Ford websites using C# and AngularJS
- Worked on a Ford web application with a new C# WebAPI and Microsoft SQL back-end and new HTML5 and AngularJS front-end
- Maintained MSSQL stored procedures for legacy web applications for Ford
- Supported small changes to VB.NET/ASP.NET web applications for Ford
- Developed a process using batch scripts and WinSCP to automate flat file loading for GM
- Converted legacy DTS packages to SSIS packages for GM

- Migrated legacy web applications to new servers for GM

RELEVANT EXTRACURRICULAR ACTIVITIES

President – Intelligent Systems Club at University of Michigan-Dearborn (Robotics)

- Led the software part of our team in redesigning and rewriting our autonomous snowplow robot with ROS and C++ for the ION Autonomous Snowplow Competition in St. Paul, Minnesota
- Won several awards with my team for our autonomous obstacle course navigating robot at the Intelligent Ground Vehicle Competition (IGVC) held at Oakland University in 2016
- Led the club as President, keeping projects on track and managing administrative tasks
- Led the PR team to attract interest in the club and run outreach events
- Helped run the club's New Member Training Program by teaching students Arduino and basic electronics

President – Divine Child High School Technology and Robotics Club (Robotics)

- Led the club to win the Most Innovative Design award in the Square One Autonomous Innovative Vehicle Design Challenge in our first year of participation in the competition
- Led the club to do outreach at two local elementary schools to get young students interested in robotics

RELEVANT PERSONAL PROJECTS

Available on GitHub

- [Blue Racer](#) – a Python script to email myself various comic strips every morning
- [Ocupado](#) – a proof-of-concept service for tracking and displaying bathroom availability
- [Ohm2017](#) – the aforementioned autonomous obstacle course navigating robot written in C++ with ROS
- [Parrot Soundboard](#) – a website written in AngularJS with various sound bites
- [Project Red-Necked Falcon](#) – a Python script using the Steam Web API to collect data about the service
- [SharedROSNodes](#) – reusable ROS code for use in multiple club projects, written in C++
- [SWBFHistoricalStats](#) – a website to record and display historical player counts for the video game *Star Wars Battlefront (2015)*
- [The World Is Just Awesome](#) – a website using AngularJS and a JSON feed to show stunning photos of Earth
- [Yeti2018](#) – the aforementioned autonomous snowplow written in C++ with ROS