Matthew J. Barichello

2018

2016 - 2018

2015

2015

2015

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	nttps.//github.com/watthewacc
	Experience
February 2018 - present	Programming and Computer Science Tutoring, Assumption College High School • Private online Java programming tutoring during weekdays after school • In-class Java programming and computer science conceptual tutoring
September June 2015 2017	 Programming and Electrical Engineering Mentor, Assumption Robotics Club Taught and mentored Java and C programming and circuit design and implementation in robotics
2013 - present	 Multi-tiered Networking and Server Deployment, Blind Beast Servers, Home Lab Deployed fault tolerant continuous integration, git repository and DNS caching servers across multiple hosts in the cloud Deployed a lights-out, PXE boot based, KVM cluster over 10Gbe, with redundant 1Gbe seamless fallback routes and isolated management NICs, utilizing mixed consumer-grade and industrial computing solutions
	Projects
July 2018 - present	Logic Analyzer Repair and Restoration - ESP8266, C++, CMake, Bash • Currently restoring a Philips 3585 Logic Analyzer requiring main-board component level repairs, power supply repairs, EEPROM re-flashing and custom hand-built logic probes
July 2018 - present	 Pal - Java, C++, Groovy, Gradle, CMake Created a Java compiler extension that enables meta-programming through annotations, while retaining full compatibility with preexisting and future JVM and JDK specifications
April 2018	 Space Bodge - Java, Lua, JavaScript, Gradle, ESP8266, Arduino Created an IoT inspired, open-source, cost-effective, and wifi-enabled game controller architecture backed by web sockets and scripted in Lua
August 2017	 congenial-octo-enigma - Java, Maven, Apache Commons Created a multi-threaded recursive NBT tree walker with a callback-based binary tag evaluator and interjection API, in Java
	Languages & Frameworks
Languages Operating Systems Frameworks Build Tools	Java; C; C++; Groovy; Bash; m4; MTEX; Python; Lua; Pascal Windows; macOS; Linux (Debian & derivatives; Red Hat & derivatives; Arch) Processing; OpenCL; OpenGL; Apache Commons; LUKS; Systemd; Iptables; Init; Cro Gradle; Maven; Ant; CMake; Make; Autotools; Waf
	Education
September 2015 - present	Ontario Secondary School Diploma Assumption College High School (ongoing)
2019	International Baccalaureate Certificate Assumption College High School (ongoing)
July 2015	DMA Certificate for Advanced Java Programming University of Toronto
	Competitions
September 14-16, 2018	Hack the North 2018
April 28-29, 2018	Massey Hacks IV Massey Hacks III
April 1-2, 2017 May 21-22, 2016	Massey Hacks II
	Awards
2018	First Place Hacker, Massey Hacks IV

Best Hardware Hack, Massey Hacks IV

Honour Roll, Assumption College High School

Optimist Award, St. William Elementary School

Science Proficiency Award, St. William Elementary School Academic Excellence Award, St. William Elementary School