## Matthew J. Barichello

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	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	<ul> <li>Programming and Electrical Engineering Mentor, Assumption Robotics Club</li> <li>Taught and mentored Java and C programming and circuit design and implementation in robotics</li> </ul>
2013 - present	<ul> <li>Multi-tiered Networking and Server Deployment, Blind Beast Servers, Home Lab</li> <li>Deployed fault tolerant continuous integration, git repository and DNS caching servers across multiple hosts in the cloud</li> <li>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</li> </ul>
	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	<ul> <li>Pal - Java, C++, Groovy, Gradle, CMake</li> <li>Created a Java compiler extension that enables meta-programming through annotations, while retaining full compatibility with preexisting and future JVM and JDK specifications</li> </ul>
April 2018	<ul> <li>Space Bodge - Java, Lua, JavaScript, Gradle, ESP8266, Arduino</li> <li>Created an IoT inspired, open-source, cost-effective, and wifi-enabled game controller architecture backed by web sockets and scripted in Lua</li> </ul>
August 2017	<ul> <li>congenial-octo-enigma - Java, Maven, Apache Commons</li> <li>Created a multi-threaded recursive NBT tree walker with a callback-based binary tag evaluator and interjection API, in Java</li> </ul>
	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; Cron Gradle; Maven; Ant; CMake; Make; Autotools; Waf
	Education
September 2015 - present	Ontario Secondary School Diploma Assumption College High School (ongoing)
2015 - present	International Baccalaureate Certificate Assumption College High School (ongoing)
July 2015	DMA Certificate for Advanced Java Programming University of Toronto
	Competitions
December 7, 2018 September 14-16, 2018 April 28-29, 2018 April 1-2, 2017 May 21-22, 2016	15th Windsor Regional Secondary School Programming Competition Hack the North 2018 Massey Hacks IV Massey Hacks III Massey Hacks II
	$\overline{ ext{Awards}}$
2018	First Place Programming Team Award, University of Windsor

First Place Hacker, Massey Hacks IV

Best Hardware Hack, Massey Hacks IV Honour Roll, Assumption College High School

Science Proficiency Award, St. William Elementary School

Academic Excellence Award, St. William Elementary School

20182018

2016 - 2018 2015

2015