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| **PAOLO TORRES**  Mechatronics Engineering, University of Waterloo, 2021 | C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Home-52.png [paolo-torres.github.io](https://paolo-torres.github.io/) |
| C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\GitHub-64.png [github.com/paolo-torres](https://github.com/paolo-torres) |
| C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\LinkedIn-52.png [linkedin.com/in/paolo-torres](https://www.linkedin.com/in/paolo-torres/) |
| C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Message Filled-64.png [paolo-torres@hotmail.com](mailto:paolo-torres@hotmail.com) |
| C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\iPhone Filled-50.png (647) 863-7995 |

C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Wrench Filled-50.png **SKILLS**

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| **Languages/Tech:** Java, JavaScript, HTML/CSS, npm, Node.js, C/C++, C#, XAML, .NET, JSON, Python  **Libraries/Frameworks:** Spring, Angular, C++ STL, libc++, Clang, LLVM, WPF, jQuery, OpenCV, scikit-learn  **Tools:** Git, IntelliJ, Terminal, AWS, Visual Studio, Linux, Jira, ROS, CMake, Command Prompt, Azure DevOps |

C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Briefcase Filled-50.png **EXPERIENCE**

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| **Amazon** | Software Development Engineer Intern | | Vancouver, BC | May - Aug 2020 | | |
| * Developed software tools for [Amazon Freight](https://freight.amazon.com/shippers) to track shipper invoices **worth up to millions** of dollars * Incorporated sorting, pagination, and filtering of data, deployed to production for **thousands of users** * Implemented **Spring caching** to improve page load times from 30s to <1s for all subsequent loads * Worked with Java and Spring Framework in the backend to TypeScript and Angular in the frontend | | | |
| **Clearpath Robotics** | Software Developer Intern | | Waterloo, ON | Sep - Dec 2019 | | |
| * Implemented **firmware** with DMX512 and sACN compatibility for control of embedded lighting system * Interfaced with an **STM32F407**, creating device drivers to support UDP transport and SPI conversion * Developed and tested features for [autonomous ground vehicles](https://clearpathrobotics.com/) in C++, utilizing ROS and CMake | | | |
| **Microsoft** | Software Engineering Intern | Redmond, WA | Jan - Apr 2019 | | | |
| * Developed **C++20** [library conformance](https://devblogs.microsoft.com/cppblog/c20-features-and-fixes-in-vs-2019-16-1-through-16-6/) features based on the C++ STL that ships with Visual Studio * Libraries: algorithms, numeric, cmath, containers, type traits, strings, functional, memory, and new * Optimized function’s move constructor to **reduce object file size** by 30% for x86 and 45% for x64 | | | |
| **Microsoft** | Explore Intern | | Redmond, WA | May - Aug 2018 | | |
| * Developed Visual Studio [IDE and IntelliSense](https://devblogs.microsoft.com/cppblog/c-productivity-improvements-in-visual-studio-2019-preview-2/) features in C++ and C#, shipped to over **5 million users** * Added **telemetry analytics** and full test coverage to track success metrics and increase robustness * Utilized Git and Azure DevOps to track work, participated in sprint meetings, and carried out demos | | | |
| **FLIR Systems** | Robotics Engineering Intern | | | Waterloo, ON | Sep - Dec 2017 | |
| * Generated fixes on **sensors** and MCUs to improve temperature reading and flight performance in C * Squashed **50+ bugs** in Jira and verified feature requests related to controls, computer vision, and UI * Tested and validated memory management issues, firmware, connectivity, calibration, and custom APIs | | | |
| **Solink** | Software Developer/QA Intern | | | Ottawa, ON | Jan - Apr 2017 | |
| * Implemented central **data source connector** in JavaScript for 10,000+ POS device transactions a day * Wrote camera-based and data extraction automation scripts via REST **saving hours of work** a week * Created software tools, patched numerous bugs, and tested the product via Scrum/Agile methodology | | | |

C:\Users\Paolo Torres\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Code Fork-64.png **PROJECTS**

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| **Vehicle Tracker** | (C++, OpenCV) |
| * Created an application enabling users to upload traffic video and count passing cars at 92% accuracy * Employed **computer vision** and image processing techniques to separate static from dynamic instances |
| **Sign Language Translator** | CUHacking (Python) |
| * Built a sign language recognition system via Leap Motion hardware with an incorporated video chat * Won Indico’s Challenge for **best use of machine learning** through SVMs and the scikit-learn library |