

## Matthew Ruigrok

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OBJECTIVE	I am a third year Mechatronics Engineering student pursuing a software internship for Summer 2021. I am a dedicated worker with a passion for learning who is excited to contribute in a team environment.		
EDUCATION	<b>McMaster University</b> , Hamilton, ON <i>Bachelor of Engineering Co-op (B. Eng)</i> , Mechatronics GPA: 4.0 Expected Graduation - Dec 2022 V. Loukanov Engineering Scholarship (2020) and Dean's Honour List (2019, 2020)		
RELEVANT COURSES	• Software Development • Data Structures and Algorithms • Operating Systems • Signals and Systems • Dynamic Models and Controls • Scientific Computation		
TECHNICAL SKILLS	<b>Languages:</b> C, Python, Java, Matlab, JavaScript, HTML, CSS <b>Libraries and Tools:</b> Git, Eclipse, IntelliJ, numpy, pandas, openCV, sklearn <b>Other:</b> Simulink, Autodesk Inventor, Cura, OpenSCAD, LabView, GT Suite, AVL		
PROJECTS	<b>Smart Response</b> • Built an app using Python, React Native and Node.js to notify first responders of potentially life-threatening events within seconds using live data from cityIQ nodes  <b>Pacemaker Software Project</b> • Programmed microcontroller to deliver rate-adaptive pulses in 10 different modes using Matlab and Simulink and built a supporting GUI using Node.js  <b>GraphDB</b> • Basic database-like program built using Java that allows the user to create, search, save and reproduce graphs, which contain unique nodes and relationships  <b>Autonomous Car</b> • Built a simulated self driving car to navigate a road course using Python • Trained model to determine WASD key presses according to current screen capture		
EXPERIENCE	<b>Electrified Propulsion Systems Intern</b> , Fiat-Chrysler June 2020 - Aug 2020 • Developed a complete coolant flow model for a specific platform of electric vehicles using GT Suite tools such as GT-ISE, GT-POST and COOL3D • Developed and simulated a controller for 2 coolant pumps to hit a specific flow target  <b>Maintenance Technician</b> , MB Animal Health June 2016 - Sep 2019 • Hands-on experience wiring control devices into PLC such as overload-protected motor contactors, pneumatic solenoids, variable speed drives and bin level indicators  <b>Volunteer Hockey Instructor</b> Sep 2012 - Apr 2019 • Demonstrated leadership and problem-solving while running skill sessions for 4-10 year old hockey players with Dunnville and Pelham Minor Hockey		
ADDITIONAL ACTIVITIES	• CEHL Hockey • Intramural Floorball • Dunnville United Soccer Club • Jr. B Hockey (2016-19) • Deltahacks VI • Woodworking • Metal Fabrication		
AWARDS	Voiko Loukanov Engineering Scholarship 2020 Dean's Honour List 2019, 2020 Pelham Panthers Jr. B Hockey Leading Scorer (2 times) 2017-19 Governor General's Academic Medal (Dunnville Secondary highest average) 2016		