

# Benjamin Korol

## 3A Mechatronics Engineering

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### Work Experience

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- Area Coordinator, GrandLinq (Aecon Group Inc)** 2015
- Created schedules and coordinated installations among several companies, crews, and subcontractors in an urban rail environment by utilizing as-built and design drawings
  - Conducted daily field audits to ensure safe and correct work practices
  - Attended and led daily Schedule and Play of the Day meetings to coordinate construction crews
- Durability Test Analyst, General Motors** 2015-2016
- Oversaw prototype vehicles to detect, investigate, document, and report all issues and concerns during the Cold Weather Exposure Test
  - Performed hands-on Root Cause Analysis for presentation to design engineers
  - Created Work Orders to ensure proper and complete work on vehicles
  - Utilized databases and coordinated with a large test team to conduct thorough investigations
- Engineering Lab Testing, ABC Group** 2013
- Worked in an ISO 17025 accredited laboratory, performing mechanical tests on parts and materials in compliance with industry standards and safety protocols
  - Employed the engineering design process to repair, modify, and improve test machinery
  - Completed administrative tasks including purchasing, tracking of laboratory projects, and writing procedural documents
- Sustainable Building Project Assistant, Plenty Canada** 2014
- Completed grant applications for funding for sustainability and greening renovations
  - Conducted an in-depth analytical study for insulation requirements of building sections

### Skills Summary

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- Experienced with laboratory and fabrication equipment through testing, research, and design projects, including familiarity with fibreglass, carbon fibre, and plastics
- Competent in 2D and 3D CAD and technical drawing; Siemens NX, Solidworks, and AutoCAD
- Working knowledge of C/C++, Python, and HTML
- Experience with PLC hardware and programming
- FPGA programming, assembly language, microprocessors and interfaces, sensors and instrumentation, real time systems, and signals
- Skilled in understanding and following specifications and standards to perform tasks safely and with repeatability; accomplished at technical writing through reports and grant applications
- Excellent time management, leadership, and organization skills developed through student councils, academic work, and coop placements, including construction project management

### Education

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- Candidate for Bachelor of Applied Science, Honours Mechatronics Co-operative Program, University of Waterloo, Waterloo, ON, September 2012 – present**

### Activities and Interests

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- Hack The Orchestra 2015: Music themed video game, Third Place
- Member of the uWaterloo Midnight Sun Solar Race Car Team (June 2013 – October 2014)
- Competition at club, provincial, and national levels
- President of UW Metal Klvb and VP of UW Sailing Club
- Competitive Regional and National Science Fairs
- Performing arts including musical theatre, ballet, contemporary, and tap