Jonah Belman

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EDUCATION

Candidate for BASc, Mechatronics Engineering / Sept 2019 - Present
University of Waterloo, Waterloo, ON

PROFESSIONAL EXPERIENCE

Team Lead / UW Baja SAE Team, Waterloo, ON   01/2021 - Present

- Restarted an inactive team and was voted to be overall team lead
- Actively leading powertrain sub-team and overseeing electrical, chassis and ergonomics, vehicle dynamics, and operations sub-teams
- Instruct new members to use SolidWorks for modelling and ANSYS for structural analysis

Robotics Engineering Specialist / Top Hat Robotics, Kitchener, ON   09/2020 - 12/2020

- Modelled and assembled robotic skeletons and chassis for sidewalk snowplows
- Updated battery storage department leading to a 300% increase in robot's battery life
- Managed electrical components and power distribution in several robots
- Soldered and wired components to custom PCBs

Founder/Co-Owner / Toronto Custom Woodworking, Toronto, ON   05/2019 - 09/2020

- Designed and constructed one-of-a-kind modern furniture pieces for clients
- Communicated with clients to fully understand their custom orders and provide project timeline updates
- Managed social media account (@tocustomwoodworking on Instagram) to reach out to future clients

Engineering Co-op / ORION, Toronto, ON   01/2020 - 05/2020

- Installed fibre-optic servers and switches into province-wide server rooms
- Managed company assets and inventory, saving the engineering team 3 hours/week, on average
- Programmed several automation processes on Customer Relation Management software

NOTABLE ACHIEVEMENTS AND PROJECTS

Chassis Design Session / Online, January 2021

- Instructed members of my Baja SAE team through the SolidWorks process of modelling a roll-cage/chassis
- Designed sample chassis and 1/100th model of the Eiffel Tower for students to follow along

1st Place – Weizmann International Physics Competition / Israel, April 2019

- Designed and constructed an "safe" with locking mechanisms based on principles of physics
- Programmed and wired electronic components of the safe
- Awarded 1st place in worldwide competition of 144 teams

To see my portfolio, please visit jonahbelman.me

TECHNICAL SKILLS

- AutoCAD, SolidWorks, GD&T, Soldering, Graphic Design, Adobe Photoshop, HTML, CSS, Java, C++, SQL, Microsoft Office, CRM