

# Matthew Bunce

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## TECHNICAL SKILLS

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**Languages:** C, C++, C#, Python, HTML, CSS, JavaScript, SQL, MATLAB, Simulink

**Technologies:** Bootstrap, React.js, Node.js, .NET, Git, Linux

**Hardware:** Arduino, Micro-controllers, Digital Logic, Circuit Design and Analysis

**CAD:** SolidWorks, AutoCAD, ANSYS, nTopology, Chitubox, 3D Printing

## EDUCATION

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### University of Guelph

September 2018 – May 2022

*Bachelor of Engineering, Major - Biomedical, CGPA: 3.3*

*Guelph, ON*

## EXPERIENCE

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### Software Developer

May 2022 – Present

*computer-Talk*

*Markham, ON*

- Created unique call center applications catering to specific customer needs.
- Developed and tested custom SOAP web-services in C# which were integrated into call center applications and triggered through VB-Scripts for the sales team.
- Updated existing contact center chat pages and created custom chat pages for clients using HTML, CSS, Bootstrap and JavaScript within the Angular framework.

### CAD Intern

May 2021 – September 2021

*Interco Fabrication*

*Peterborough, ON*

- Updated existing CAD files and created new accurate drawings for the production staff and customers.
- Provided drawings which helped the company secure a \$250,000 contract.

## PROJECTS

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### Engineering Capstone Project | *SolidWorks, nTopology, 3D Printing*

- Investigated the feasibility of octet lattice structures as an alternative to EPS foam in helmets
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

### Heat Stroke Warning System | *Arduino, Circuit Design, C++*

- Created a wearable biomedical system which monitored user's internal temperature, pulse and contributing environmental factors such as humidity and temperature.
- Programmed an Arduino Nano Everyday Microcontroller using C++ and designed the devices circuit.
- Processed data was collected and used to determine if the user was at risk for heat stroke. Output was displayed to LCD screen integrated into a work glove.
- Tested the device in numerous real-life scenarios to ensure that warnings were correctly issued.