

# Zaeem Israr

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## Experience

### Software Developer, Manufacturing Systems Corp, Newmarket, ON

April 2017 - May 2018

- Communicated with clients and managers to modify products to better meet customer requirements
- Created software to automate and improve build and installation processes
- Provided remote customer support to users in Canada and US
- Planned the migration of company code-base to TFS and ensured code functionality and integrity by carefully migrating and testing code across different VCS's
- Added Microsoft Team Foundation Server integration to exiting application builders

## Skills

- Coding: C#, Java, T-SQL, VB.net, C, Python, Eiffel, HTML, Assembly
- Version Control: Git, VSS, TFS
- IDE's and Tools: Eclipse, NetBeans, Code::Blocks, Visual Studio, IDLE, MATLAB, Rodin, LabVIEW, MS SSMS, MS Office
- Miscellaneous: Linux, Shell Scripting, Event-B modelling, Wireshark, Kali, Scapy, Verilog, TLA+, Apache Tomcat

## Education

### Bachelor of Engineering (Honors), Software Engineering

April 2020

York University, Toronto

Awarded York University Entrance Scholarship for Academic Excellence

**Specializations:** Software Architecture, Algorithms Design, Software Design Patterns, System Specifications, Advanced Object-Oriented Programming, Network Security and Forensics, Cryptography, E-Commerce Systems

## Relevant Projects

- **EEG Headset (Capstone) - C, Java:**
  - Working with a team of software, computer and mechanical engineers to develop a fully functional 16-channel EEG headset prototype
  - Developing custom PCB as well as accompanying software according to client specifications
  - Utilizing waterfall project management methodology to coordinate teams and manage deliverables
- **Code Applet - C#:**
  - Developed proprietary application to update company code-base (strings, variables, constants) according to given criteria with various filtering options
  - Integrated MS Sequel Server Management Studio API to facilitate filter selection through choice of existing databases and tables
  - Added version control functionality to enable modifying of existing code-base in VCS or creating modified copy
- **Braille App - Java:**
  - Developed an open-source Braille learning game app with an agile team for educators and visually impaired children with text-to-speech functionality
  - Employed the Software Development Lifecycle to manage and delegate deliverables and improve code robustness and reusability
- **IntelliJ IDEA Architecture Analysis - Technical Documentation, Java:**
  - Worked with a team of software engineers to extract and contrast conceptual and concrete architecture of open source application utilizing documentation and existing dependency extraction techniques
  - Developed additional dependency extraction techniques and proposed architectural enhancements

References available upon request