# Liam Telenko

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## Education

**McMaster University | Hamilton, ON** *September 2019 – Present*
Bachelor of Engineering in Computer Engineering, GPA 10.3 Expected Graduation, May 2024

## Experience

**Synopsys | Mississauga, ON** *April 2022 – September 2023*
***Digital Verification Engineering Intern / Solutions Group***

- Implemented and maintained constrained-random SystemVerilog UVM testbenches
- Debugged and documented mixed-signal simulation failures from daily regressions
- Wrote and implemented verification testplans

**McMaster University | Hamilton, ON** *July 2020 – April 2022*
***Web & Desktop Applications Assistant / Office of the Registrar***

- Developed multiple full stack software solutions in Python for internal tasks resulting in improved efficiency of recurring processes
- Maintained technical and end-user documentation for support tickets and internally developed software
- Provided remote and in-person desktop and application support for users in a variety of production environments

## Projects

**Hardware Image Decompressor** *December 2021*
***Digital Systems Design / 3DQ5***

*The goal of the project was to decompress a proprietary image format using a hardware implementation. The project was team-based and completed in groups of two.*

- Implemented colour space conversion, interpolation, and inverse-signal transformation on FPGA hardware in SystemVerilog
- Designed modules to efficiently compute matrix operations and manage data in embedded and external memory
- Completed unit tests by verifying the operation of individual modules in ModelSim

**3D Visualization of Time-of-Flight Data** *April 2021*
***Microprocessor Systems Project / 2DX4***

*The goal of the project was to design a system which can collect and interpret data from a time-of-flight sensor. The project was completed individually.*

- Developed embedded software for an ARM Cortex platform in C and assembly; wrote visualization software in Python
- Utilized the $I^2C$ and UART protocols to transfer data between the time-of-flight sensor, microcontroller, and data visualization software

## Extra Curriculars

**McMaster Formula Electric | Hamilton, ON** *October 2020 – March 2022*
***Dashboard Team Lead***

- Worked with previous team leads to design the structure of the software to meet hardware and competition constraints
- Utilized RTOS queue and task components to integrate the GUI with the CAN bus on the STM32 based platform