

# AGOSTON SZEPESSY

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## EMPLOYMENT

May 2016 to Aug 2016

Robarts Research Institute · Software Developer

- Created user interface for brain ventricle extraction software comprised of 15 different programs
- Automated ventricle extraction software using Bash script, which processed 3 images at once
- Extended ventricle extraction software to split ventricles in half after extraction using the Visualization Toolkit for reading in the image and NumPy for the linear algebra required to split the image
- Wrote technical user manuals

## EDUCATION

2019

Western University

B. Eng. Software Engineering

## SKILLS

**PROFICIENT:** C++, Java  
**PRIOR EXPERIENCE:** Rust, JavaScript, Python, Bash  
**TECHNOLOGIES:** SFML, HTML 5, Git, Linux

## PROJECTS

Contributions to Servo (Mozilla Open Source Project)

- Implemented parsing and serialization for "text-emphasis-position" CSS property in Rust
- Wrote script to update WPT tests

Telemetry team member - SunStang (Western Solar Car Team)

- Developed software that transmits sensor data between subsystems in the car using the Controller Area Network (CAN) communication protocol
- Integrated GPS with real-time tracking in Google Maps into the CAN-based telemetry system for the car, using GMap.Net, a C# Google Maps API wrapper

European Rover Challenge - Western Engineering FIRST Robotics

- Software team co-lead
- Programmed PI controllers in C++ using WPILib to move the rover

Hack the North 2016

- An Android alarm app that tracks a person's location and is only disabled after they have reached a preset location
- Wrote backend which uses Google Play Services API for GPS tracking, and Android Services to turn on alarm

Rise of Oxshan

- 2D platformer written in JavaScript and HTML 5
- Uses AJAX to load levels
- Uses custom 2D game engine

Battle of Oxshan

- 2D game using custom game engine written in C++ with the SFML game library
- Player takes on the role of a mage and faces waves of various enemies

## AWARDS

May 2016

Western Universtiy · Dean's Honour List 2015-2016

For successful completion of 1st year with a Yearly Weighted Average of 80% or greater.