

# Yanushka Gnanamuttu, EIT

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## Contact

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## About

Seeking Full Time Software Developer Position

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Interested in: R&D and Application Embedded Development

## Skills

### Languages

- C/C++
- Javascript
- Python
- Bash

### Platforms/Tools

- Git
- Linux
- ROS
- CMake
- MSVC
- Docker
- Boost
- Jenkins

## Education

University of Ottawa  
BASc. in Computer Engineering  
Sept. 2015 – Apr. 2019

## Activities

- Rock Climbing
- Canoeing & Camping
- Running

## Work Experience

### Software Developer

Sensors & Software R&D, Mississauga | May 2019 – Present

- Developed applications, tools and processes to deploy and configure ground penetration radar (GPR) software
- Maintained and expanded an application's sensors API using various interfaces such as I2C, TCP/IP and CAN
- Lead future concept projects that expanded the capability of existing products and services
- Efficient in creating CI workflows in a cloud environment
- Worked directly with the project management team to solve engineering problems
- Wrote closing documentation, project proposals and technical documents

### Software Analyst Intern

Thales R&T, Toronto | May 2018 – Aug. 2018

- Assisted with the implementation of autonomous train positioning solutions and vehicle detection
- Improved the performance of the vision code through multithreading and targeting the GPU
- Enhanced the image quality of the camera, and implemented real-time adaptive lighting

## Projects

### Real Time Object Tracking (4<sup>th</sup> Year Research Project)

Python, C++ | Sept. 2018 – April 2019

- Researched and implemented technologies for neural networks (YOLO) to be used on a Jetson platform for real time object tracking
- Optimized the neural network, generating an 8x performance speed-up from the use of the GPU
- Utilized the Jetson's camera through GStreamer and OpenCV

### RoboBoat

ROS, Python, XML | Jan. 2017 – April 2019

- Co-founder of the Ottabotics robotics team
- Developed an autonomous robotic boat that can navigate through challenges using sensor data