Yanushka

Yanushka Gnanamuttu, EIT

* 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
* 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

Software Analyst Intern

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

Real Time Object Tracking (4th Year Research Project)

Python, C++ | Sept. 2018 – April 2019

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
* 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

Interested in: R&D and Application Embedded Development

About

* Rock Climbing
* Canoeing & Camping
* Running
* Linux
* CMake
* Docker
* Jenkins
* Git
* ROS
* MSVC
* Boost

Platforms/Tools

* Javascript
* Bash
* C/C++
* Python

Languages

Skills

Software Developer

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

University of Ottawa

BASc. in Computer Engineering

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Sept. 2015 – Apr. 2019

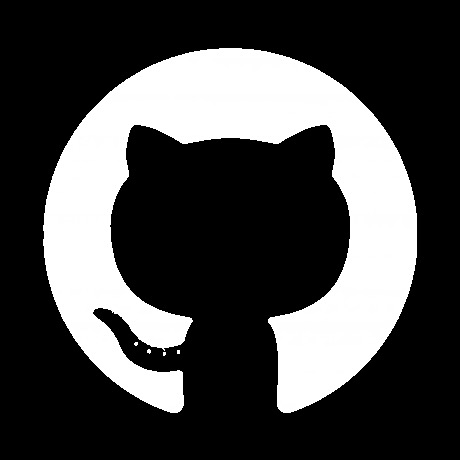
Activities

Education

Seeking Full Time Software Developer Position

Contact

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 [YanuG](https://github.com/YanuG)

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Screen%20Shot%202016-10-02%20at%2012.04.04%20AM.png [yanu.gnan@gmail.com](mailto:yanu.gnan@gmail.com)

Work Experience