John Smith

Toronto, Canada

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Education

University of Toronto

Master of Applied Science in Electrical and Computer Engineering

Sep 2018 – Apr 2020 | Toronto, Canada

GPA: 3.95/4.0

Activities: Robotics Club President, Graduate Teaching Assistant, Engineering Competition Judge

Relevant Coursework: Embedded Systems, Robotics, Control Systems, Computer Vision, Sensor Fusion, Machine Learning for Robotics, Mechatronics, Motion Planning

Bachelor's Degree: B.Eng. in Electrical Engineering, McGill University, GPA: 3.85/4.0

Work Experience

Robotics Engineer | Boston Dynamics | Jun 2020 - Present | Toronto, Canada

- Developed real-time vision algorithms for robotic navigation in unstructured environments.
- Designed and implemented control systems for quadruped robots, improving stability on challenging terrain.
- Created machine learning models for object detection and obstacle avoidance using ROS and PyTorch.
- Led firmware development for sensor integration and real-time motion control on custom microcontrollers.

Skills

Robotics: ROS, ROS2, Gazebo, MoveIt, Navigation Stack, SLAM

Embedded Systems: ARM, STM32, RTOS, Arduino, Raspberry Pi, FPGA

Sensors: LiDAR, Camera, IMU, Encoder, Ultrasonic, Pressure, Force

Control: PID, MPC, Adaptive Control, Path Planning, State Estimation

Programming: C/C++, Python, MATLAB, Assembly, VHDL

CV/ML: OpenCV, TensorFlow, PyTorch, PCL, CUDA

Other: CAD (SolidWorks, Fusion 360), PCB Design (Altium, KiCAD), 3D Printing, Mechanical Design

Certificates

NVIDIA Deep Learning for Robotics

ROS Industrial Developer Certification

Certified LabVIEW Developer

TensorFlow Developer Certificate

Awards

Outstanding Technical Achievement – Robotics Industry Association 2023

Best Paper Award – IEEE International Conference on Robotics and Automation (ICRA) 2022

First Place – International Autonomous Robot Competition 2021