Ahmed Abdulkadir

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Education

University of Toronto
Bachelor of Applied Science
September 2015 - Present

- Engineering Science - Electrical and Computer Engineering, 3rd Year
- Minor in Robotics and Mechatronics
- GPA: 3.44/4.00 - U of T Dean's Honour List
- Relevant Courses: Data Structures and Algorithms, Digital and Computer Systems, Computer Organization, Systems Control, Artifical Intelligence

Skills

Programming: Python, C, MATLAB, Swift, Unix, FPGA programming with Verilog, ARM Assembly, Arduino OpenCV, Caffe, Torch, Bootstrap, Semantic UI

Design: Adobe Photoshop, Illustrator, Premiere Pro, 3D modelling with Solidworks, web design with HTML and CSS

Experience

Adaptive Neurorehab Systems Lab
Machine Learning Intern
May - August 2017

- Developed computer vision algorithms to analyze hand function from video by training a convolutional neural network that isolates hands from first-person footage
- Used deep learning frameworks Caffe and Torch to create and retrain neural networks, achieving state-of-the-art results in hand detection and segmentation
- Awarded U of T Engineering's Undergraduate Summer Research Fellowship, worth $5000

StayGo
Co-Founder
April 2017 - Present

- StayGo develops technologies that help gyms make informed decisions about how to manage their facilities through real-time positioning and trend analysis to provide insights
- Designed software dashboard that presents insights and statistics to gym managers
- Awarded $14,000 in funding by the University of Toronto's Entrepreneurship Hatchery

MAG International Electromechanical Works
Site Engineer Intern
June - August 2016

- Proposed space-efficient designs for cable network layout on residential floors and the arrangement of the L.V. Room which stores the main distribution boards of the building
- Examined and verified the power load schedule to ensure power considerations were met
- Coordinated with foremen to place sleeves and conduits prior to concrete pouring

Projects

Battery Recycling Machine
Robotics Design
January - April 2017

- Worked in a team of three to design and construct an autonomous robot that can sort 25 batteries based on their type and charge
- Led the circuits subsystem, where I designed, soldered and debugged the various electronics of the machine

Allan Gardens Conservatory
Praxis Engineering Design
January - April 2016

- Designed an information delivery system for Allan Gardens, a historic botanical garden in Downtown Toronto. This included a modern signage system, interactive stands that provide visitors with plant information as well as identification tags that link to a plant database.

Extracurriculars

Project Include UofT
Instructor, July - August 2017

- Organized and facilitated a web development bootcamp for underpriviledged children aged 10-12 at York Woods Public Library, where I taught basics of HTML, CSS and Semantic UI

Skule Engineering Stores
Director, 2016 - 2017

- Designed graphical and marketing assets for the student-run engineering bookstore using Photoshop and Illustrator, which reached more than 1500 people weekly