

Adrian Malaran

Mechatronics Engineering | **PROGRAM**
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4 MONTHS | **TERM**

TECHNICAL SKILLS

- **Coding Languages:** JavaScript | Python | Django | Java | C++ | HTML5 | CSS | LESS | Bootstrap | Gulp | jQuery | AngularJS | ROBOT-C | Flash ActionScript | AJAX | JSON | PostgreSQL
- **Design Software:** SolidWorks | AutoCAD | ArtCAM | Google SketchUp
- **Manufacturing Tools:** CNC Machine | CO2 Laser | 3D Printer | Solder
- **Software Environments:** Android Studio | GitHub | Unity
- **Operating Systems:** Linux | Windows

SUMMARY OF QUALIFICATIONS

- Displayed extensive initiative and leadership abilities through fulfillment of presidential roles and directing representative positions
- Adept adaptability and analytical skills developed through engagement in different professional areas of expertise such as the performing arts, business, and engineering
- Strong teamwork skills bolstered through years of collaborative experience as a dancer and club leader
- Excellent time management skills shown through the ability to balance multiple high-level priority projects on strict deadlines as a software developer

RELEVANT EXPERIENCE

Full-stack Developer

Jan 2016-Apr 2016

BroadConnect Telecom

- Developed, troubleshoot and improved a multitude of features on enterprise level software in order to increase effectiveness and efficiency in program functionality
- Implemented the use of WebSockets to various programs to emulate real time server reaction towards incoming data, thus, greatly improving software efficiency
- Imbedded the use of REST APIs (i.e. Twilio/Facebook) to develop more intuitive and interactive features on software platform
- Assembled a promotional website using Django and Bootstrap (HTML/CSS) for company products used for marketing towards high level corporations

Computer Technician

Jul 2014

Crave Systems

- Demonstrated keen analytical and problem-solving skills by using a combination of both software applications and hardware components to isolate, diagnose and remove computer error
- Developed strong innovative problem-solving skills by quickly learning how to recognize segmented smaller problems that culminates to a larger problem, thus improving company efficiency

Robotics Camp Teaching Assistant

Jul 2013

Numeracy through Robotics Camp

- Enhanced knowledge of over 30 students by mentoring them in the engineering foundations of programming, computer aided design, and robotics
- Improved verbal communication skills by using a variety of techniques in order to effectively captivate student's curiosity and interest

PROJECTS

TrakRecord (Android App) | Toronto WearHacks 2016 SickKids Foundation Challenge Winners

- Developed an android application with Java in calibration with external positional beacons that delivers real-time meaningful data to a user in a marathon setting
- The app is being further developed for improvement in partnership with Cossette Inc. and is on-route to being launched for use at a Fundraising Marathon for the SickKids Foundation in September 2016

Web Based Messaging App

- Devised an application that enables a user to message phone numbers from a web based graphical user interface; developed using Twilio, HTML5, CSS, Python, Django, Angular, Gulp, AJAX, JSON, LESS

COSMOS Game App | University of Waterloo Stratford Game Design Competition

- Developed a fully functional multiplayer game within a time span of 20 hours using HTML5 and Javascript that challenges players to work in a team-oriented game environment
- Programmed game element algorithms that added complexity, challenge and depth to create a more fulfilling user experience

Personal Website (www.adrianmalaran.me)

- Developed and designed a full personal website using HTML, CSS and AngularJS

Ukulele Tuner

- Constructed and configured an autonomous NXT robotics system that utilizes light, sound and touch sensors to measure pitch and simulate a personalized machine
- Programmed the system using ROBOT-C to independently interpret the pitch and engage the mechanical components accordingly to adjust the tension in the strings to the correct pitch

Hydrogen Powered Fuel Cell Car

- Configured a small scale vehicle running off hydrogen based gas and modified the mechanical body to better suit track environment
- Coded the vehicle to perform unanimous tasks and interact with an environment given a main objective

FM Radio

- Constructed an FM radio from a parts kit by reading schematic configuration and soldering the various components into an electrical circuit

3D Designs

- Created intricate 3D design models of chess pieces and phone cases using SolidWorks and ArtCAM
- Utilized 3D Printers, CNC Machines, and CO2 Lasers to craft prototypes of created designs

OTHER EXPERIENCE

Sales Associate

Jul 2015-Aug 2015

Watch Station

- Diligently attained a net sales upwards of \$40,000 for the company over 2 months through consistent execution and commitment
- Named Top Performer in terms of sales, and achieved the highest score with a perfect in Sales Associate Grading from the Manager demonstrating dedication and hard work

Back Up Dancer

Jul 2014, Jul 2015

The Filipino Channel (TFC)

- Collaborated, organized and choreographed with various international celebrities for concert showcases
- Developed both mental and physical discipline by persisting through extensive hours of training and critique of own performance

Leadership Initiatives: University Academic Rep | Leader in Black | Dance Team President

Sep 2014-Jun 2015

- Demonstrated commitment and initiative through coordination of multiple social events and meetings aimed to improve the quality of school environment
- Orchestrated and choreographed elements of performances as Dance Team President

Founder & President of League of Legends Club

Sep 2014 -Jun 2015

- Diligently coordinated and organized equipment for the establishment of a demanded club
- Prepared and organized club meetings for over 50 club members to ensure dynamic flow of events

EDUCATION

UNIVERSITY OF WATERLOO

- Candidate for Bachelor of Applied Science- Mechatronics Engineering
- Relevant Courses: Mechatronics Engineering-General Computation-Data Structures-Circuits
- President's Scholarship of Distinction (Awarded to Applicants with a 95%+ Average)

BISHOP P. F. REDING SECONDARY SCHOOL

- Ontario Scholar | Specialist High Skills Major Certificate in Information and Communication Technology
- Ranked overall 3rd Place in NXT Robotics Competition across school board