Parth Suthar
(647) 739-9188
parth.suthar1@uoit.net
302, 1050 Markham Road,
Toronto, ON M1H 2Y7

Education

Woburn Collegiate Institute, Toronto, ON   September 2011 – June 2015
- Graduated with Honours

University of Ontario Institute of Technology   September 2015 - Present
- Software Engineering expected Graduation April 2020

Programming Languages	Java, C, C++, SQL, HTML, CSS, PHP
Technologies	Android, Git, web development, Arduino, FIRST and VEX robotics
Design and CAD	SolidWorks, SIEMENS NX, Autodesk Inventor
Web Development	Polymer, REST API,
Other software	MATLAB, Maple, Microsoft Office,

Skills

Experience

Brick Works Academy   July 2016 – August 2016

- **Camp Councillor:** Manage a robotics camp for kids age 9-14 teaching them LEGO EV3 programming along side some robotics fundamentals.

Mentor and Volunteer, FIRST Robotics   2012 – Present

- **Control System Advisor:** assist FRC teams in matters regarding robot control system
- **Mentor**: offer expertise in control systems, strategy and programming while inspiring interest in STEM for FRC, FLL and Jr. FLL teams
- **FRC Referee**: maintain fair play and score FRC matches
- **FLL Referee:** responsible for fair play in FLL Competition
- **Scorekeeper:** responsible for entering correct scores and resolve conflicts

Woburn Collegiate Institute   *September 2011 – June 2015*

Team President/ Control Systems Lead, Team 188 Woburn Robotics   2012 – 2015

- **Team President:** manage the team by communicating information between the mentors and students. Coordinate meetings and designate work plans to sub-teams
- **Control Systems Lead:** manage electrical and pneumatics components (power distribution board, cRio, roboRio, sensors, solenoid, pneumatic pistons, etc.)
- **Pit Crew:** fix and maintain the robot between matches. Effectively communicate robot design and design process to industry professionals.

Executive Member, Electronics and Computer Engineering Club (2 years)
- Build and analyze electrical prototypes using micro-controllers (Arduino, PIC microcontroller, BASIC STAMP, etc.) and electrical components (breadboard, resistors, microchips, etc.)

Class Representative, SAC Member (2 years)
- Attend meetings to plan school events and relay the information to class

Woburn Ultimate Team (3 years)
- **Co-captain and coach:** Arrange and run practices and manage a co-ed team of 20 players.

Scarborough Historical Museum   January 2012 –August 2014

- Organize all day events, interpret the museum and artifacts to guests, interview visitors for Community's memories kiosk, arrange birthday parties for children around the age of 9-12, and supervise kids for Day Camp during march break and summer break
- Volunteer of the Year Award Recipient

Projects

Checkpoint   **May 2016**

- An android application that incentivises the runners to run and get rewarded. App uses Cisco's Zeus for runners to monitor their runs and Relayr for business owners to monitor the analytics. Runners are paid by the business owners as their businesses are used as checkpoints during their run. Developed in 14 hours at CISCO DevNet Hackathon and placed third.

FRC Scouting Web App: Outlook   **Jan – April 2015**

- Build a data collecting Web App with a Polymer UI and PHP/SQL backend and REST API, in order to enhance team's strategy development process during competitions

Anonymous Fire Fighting Robot   **Dec 2014 – April 2015**

- Build a small Maze solving robot that searches for a candle in a room and eliminate the fire using Arduino microcontroller, IR sensor and servos

Achievements

UOIT Award of recognition	2015
Team 188 Robotics Achievement Award	2015
Woburn Ultimate Frisbee Coach's Recognition Award	2015
Participant at Ontario Skills Competition for Electronics representing TDSB	2014
TDSB Skills Competition for Electronics Gold Medal	2014
TDSB Skills Competition for Electronics Silver Medal	2013-2014
Honors Award (Woburn Collegiate Institute)	2011-2014