

# Lumbini Parnas

· ROBOTICS ENGINEER ·

100 Institute Road, Worcester, Massachusetts

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*"Be the change that you wish to see in the world."*

## Education

### Worcester Polytechnic Institute

Massachusetts, U.S.A

ROBOTICS ENGINEERING MAJOR, AEROSPACE ENGINEERING MINOR

2013 - May 2017

- Dean's List 2015-2016
- Rho Beta Epsilon - Robotics Engineering Honor Society

### International School of Kenya

Nairobi, Kenya

INTERNATIONAL BACCALAUREATE

2011 - 2013

## Experience

### Indian Space Research organization - Satellite Centre (ISAC)

Bangalore, India

INTERNSHIP - INDUSTRIAL TRAINEE

June 2016 - August 2016

- Worked with the various sub groups involved in satellite development like Spacecraft Mechanisms, Propulsion, Structures, AOCS, Thermal, Vibrations, Communications etc.
- Worked on a project with other interns to develop a proof of concept for the robotic colonization of the moon.

### Worcester Polytechnic Institute - WPI Fund

Massachusetts, U.S.A

STUDENT CALLER

October 2015 - Present

- Establish and maintain contact with WPI Alumni; and help WPI raise fund for financial aid, resources etc.

## Projects

### MRI Compatible Fiber Optic Force Sensing

Massachusetts, U.S.A

MAJOR QUALIFYING PROJECT

2016 - 2017

- Developing a force sensing technique using a fiber optic sensor to study the force profiles of tissue and help with needle guidance during a biopsy.

### "Get There" WPI-Navigation Application – Project Manager

Massachusetts, U.S.A

PROJECT MANAGER & DEVELOPER

Fall 2015

- Developed a desktop application for WPI campus navigation in Java paired with Java Swing.
- Mainly involved with the Graphical User Interface and Project Management of a team of 8 developers.

### "The Drone Perspective"

Massachusetts, U.S.A

INTERACTIVE QUALIFYING PROJECT

2015-2016

- A Research Project studying the interaction between commercial usage of drones and the society in the past, present and future.
- The project resulted in a website: <https://thedroneperspective.wordpress.com/>

### Fire Fighting Robot

Massachusetts, U.S.A

UNIFIED ROBOTICS - ACTUATION

Jun. 2010 - PRESENT

- Designed, built and programmed a robot that navigated through a maze to find and extinguish a flame.

## Platforms and Software

C, EMBEDDED PROGRAMMING WITH C, C++, PYTHON, JAVA, JAVAFX, ORACLE - SQL PLUS

GIT, ECLIPSE, INTELLIJ, ARDUINO, MATLAB, SOLIDWORKS, AUTODESK INVENTOR, AUTOCAD, PHOTOSHOP, LATEX

OS X, UBUNTU, WINDOWS, ROBOT OPERATING SYSTEM

## Activities

2015-2016 **Satellite Development Club**, Command and Data Handling

2014-2016 **Robokids**, Member