Lumbini Parnas

ROBOTICS ENGINEER

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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

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.

Projects _

MRI Compatible Fiber Optic Force Sensing

Massachusetts, U.S.A

MAJOR QUALIFYING PROJECT

2016 - 2017

• Currently developing a force sensing technique using fiber optic force sensor to study the force profiles of tissue and help with needle guidance during a biopsy in the MRI

Internet of Things - ToasterIO

Massachusetts, U.S.A

GRAND PRIZE WINNER - MLH HACK@WPI 2017

Jan 13th-15th 2017

• Modified a toaster to work with the Amazon Echo and a Raspberry pi 3. This enabled the user to make toast by issuing a voice command to Alexa. The project was completed in 36 hours.

2-DOF Arm Manipulation

Massachusetts, U.S.A

Fall 2016

UNIFIED ROBOTICS - MANIPULATION

• Designed and implemented a control system design used on an automated 2-DOF arm to pickup blocks moving on a conveyor.

The major components included PID controller, forward and inverse kinematics, infrared sensing and current sensing.

"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.

Fire Fighting Robot

Massachusetts, U.S.A

Unified Robotics - Actuation

Spring 2015

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

Platforms and Software _____

C, C++, PYTHON, JAVA, JAVAFX, JAVA SWING, ORACLE - SQL PLUS

SOLIDWORKS, FEA, GIT, ECLIPSE, INTELLIJ, ARDUINO, MATLAB, 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

JANUARY 2017 LUMBINI PARNAS