

# Anirban Mukherjee

Undergraduate Junior (3.47 GPA)

Looking for Research or a Summer Internship in the fields of Robotics or Electrical and Computer Engineering.

amukherjee2@wpi.edu ✉

609-781-7502 📞

17 Dean Street, Worcester, MA 01609 📍

## EDUCATION

### Robotics Engineering: Bachelor Of Science Worcester Polytechnic Institute

08/2017 – 05/2021

Worcester, MA

Courses (GPA:3.34)

- Embedded Systems
- Unified Robotics
- Calc, Diff Eq, Linear Algebra, Prob/Stat
- Control Systems
- Object Oriented Program Design (JAVA)
- Entrepreneurship
- Discrete and Continuous Signal Processing

### Electrical and Computer Engineering Worcester Polytechnic Institute

08/2017 – 05/2021

Worcester MA

Courses (GPA 3.34)

- Intro to ECE
- Embedded Systems and Computing
- Discrete Mathematics
- Intro to Digital Circuits
- Continuous Time Signal Analysis

## WORK EXPERIENCE

### Instructor iD Tech

06/2018 – 08/2018

Carnegie Mellon University in  
Pittsburgh, PA

Summer camp for STEM education

Achievements/Tasks

- Taught a Machine Learning class to gifted High School students
- Rewrote course material for Open AI and Tensorflow

Contact: Hannah Urig – hannahmurig@gmail.com

### Connections Peer Advisor WPI Office of Multicultural Affairs

08/2018 – 09/2018

Worcester, MA

Program that prepares underrepresented and minority first year students for college through tutoring, team building, self development, and leadership

Achievements/Tasks

- Worked firsthand with a team of students to prepare them well for college at WPI

Contact: Nelson Pham – npham@wpi.edu

### Media Education Intern Indian Institute of Cerebral Palsy

07/2015 – 08/2015

Kolkata, India

Education for children with CP, and development of curriculum for children with disabilities countrywide.

Achievements/Tasks

- Worked in media department to teach kids how to use computers to aid in daily activities

## SKILLS

Tensorflow and Machine Learning

Java

C++

Python

Solidworks

Autodesk Inventor

Circuit Design and Analysis

Metalworking and Hardware Assembly

Project Management in AGILE and SCRUM

ROS

MatLab

Linux Terminal

## PERSONAL PROJECTS

### Robotics Project: Turtlebot3 Maze Mapping (10/2019 – 12/2019)

- Use ROS and Python, a search algorithm was developed using SLAM and gmapping. The robot maneuvered through the maze by path planning using an implementation of A\*, and could successfully map the unknown territory completely and return home. Afterwards, the robot was able to accept navigation goals in the new maze and go to them.

### Robotics Project: 3 DOF Robotic Manipulator (08/2019 – 10/2019)

- Programmed a robotic manipulator using both JAVA and Matlab in order to pick and sort colored objects using vision. Topics covered in the project include Jacobian matrices, DH parameters, forward and inverse kinematics, and vision using a webcam.

### Great Problems Seminar: Idol Immersion in Ganges River (08/2017 – 01/2018)

- Worked in a team of three to develop a solution to educate the public of Kolkata India on the effects on harm of Idol Immersion in the Ganges River after festivals. The problem involved working closely with locals to ensure realistic plans that are accepted by the culture and designing an autonomous probe to monitor the river's improvement over time.

### Interactive Qualifying Project (Beijing, China) (04/2019 – 08/2019)

- Worked with fire departments in Wuhan and Beijing in order to create a location algorithm to determine potential new sites for fire stations. Our team worked with university students in China in order to engineer the best solution to the problem. The problem involved a great deal of qualitative research as well, in the form of interviews and surveys.