

# Tara Umesh

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## OBJECTIVE

To obtain a computer engineering internship where I will utilize my strong problem-solving skills, and ability to collaborate effectively with others.

## EXPERIENCE

### **New York University, Brooklyn, NY** *Research Assistant*

AUGUST 2017 - PRESENT

Researched neural networks and machine learning. Implemented neural network in hardware by programming an FPGA.

### **nLight Photonics, Portland, OR** *Software/Hardware Intern*

JUNE 2017 - AUGUST 2017

Wrote programs in OpenCV and LabVIEW for an autonomous single laser diode testing station. Made hardware modifications on diode testing station to optimize laser data collection.

## EDUCATION

### **NYU Tandon School of Engineering, Brooklyn, NY** *B.S. Computer Engineering*

SEPTEMBER 2016 - MAY 2020

Honors program.

## PROJECTS

### **NYU Robotic Design Team** *Electrical Lead*

Designed and built rover robot to compete in the NASA Robotic Mining Competition. Led a sub team in the electrical engineering aspects of the robot such as communication protocols, low level controls, and power distribution.

## PROGRAMMING LANGUAGES

C++, C, Python, OpenCV, Verilog, HTML, CSS, SQL, and Swift.

## COMPUTER SKILLS

PCB Design, EAGLE, LabVIEW, Adobe Photoshop, Adobe Illustrator and Microsoft Suite.

## AWARDS

Dean's List at NYU Tandon School of Engineering 2017.

Best Beginner Hack for creating an iOS app that teaches users about STDs through interactive gameplay.

## RELEVANT COURSEWORK

Data Structures and Algorithms

Object Oriented Programming

Fundamentals of Circuits

Digital Logic and State Machine Design

Electronics