

# Nick Zanobini

Engineer / Innovator / Dreamer

I crave joining a team where delivering results and utilizing interesting technology to solve challenging problems is the main goal. As a former student-athlete, I learned to strive in a high-stress environment and I know what can be accomplished with a competitive and passionate team focused on a common goal.



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## WORK EXPERIENCE

### Equipment Engineer

Boston Scientific Neuromodulation

05/2016 – Present

Valencia, California

- Designed, Upgraded and Maintained PLC based Electro-mechanical Systems in a controlled clean room approved by the FDA, and other global agencies.
- Assisted R&D in designing new products to be manufactured in a fool proof and efficient manner
- Implemented processes to decrease equipment down time and increase the yield from 50% to greater than 95%

### Intern - Equipment Engineer

Boston Scientific Neuromodulation

05/2015 – 08/2015

Valencia, California

- Developed and implemented a laser ablation motion control program for a new product
- Developed a process to collect and analyze data from production equipment in order to maintain control limits

### Intern - Analog Electronics Engineer

MOOG Aircraft Group

05/2014 – 08/2014

Torrance, California

- Wrote a test program utilizing lab equipment to apply and measure signals significantly reducing testing time
- Designed and built test equipment that consolidated the testing process to a one-person job from three people

### Undergraduate Research

Loyola Marymount University

01/2014 – 08/2014

Los Angeles, California

- Programmed modules in an online interactive learning environment to help students visualize various math problems ranging from base conversions to initial value problems.

## EDUCATION

### B.S.E. with Honors in Electrical Engineering with an Emphasis in Computer Engineering

Loyola Marymount University

08/2012 – 05/2016

Los Angeles, CA

- GPA: 3.53, Dean's List
- Fr. Alfred Kilp, S.J. Award for Service and Leadership
- Division 1 Water Polo
- Student Service and Leadership Award

## SKILLS & COMPETENCES

Teamwork	●	●	●	●	●
Python	●	●	●	●	○
Troubleshooting	●	●	●	●	●
Critical Thinking	●	●	●	●	○
Time Management	●	●	●	●	●
Verbal and Written Communication	●	●	●	●	○

## PERSONAL PROJECTS

### Automated Pick and Place Robotic Arm

- Used OpenCV to locate an object and find its position. Using inverse kinematics the arm moves to the item's location to pick it up and place it in a bin

### 2 Factor RFID Door Lock

- Designed a RFID and keypad controlled door lock. 3D printed a housing for the electronic door strike and all the electronics.

### Obstacle Avoidance Rover

- Designed and built an autonomous 4WD rover that drives around avoiding obstacles utilizing an Arduino and sensors.

### Gesture Controlled Robotic Arm

- Trained a cascade object detector for hand gestures, using skeletal data for filtering enabled precise control of each joint in the robotic arm. A simple UI was developed for fluid control of the system.

## VOLUNTEER WORK

### FIRST Lego League (05/2017 – Present)

Challenged and mentored 4th-8th graders to think of solutions to real world problems by building and programming LEGO MINDSTORMS robots

### FIRST Robotics Competition (02/2017 – Present)

Mentored and coached high school students in designing and programming a robot to compete in FIRST Robotics Competition.

## INTERESTS

Water Polo

Snowboarding / Skiing

Robotics

Reading

Hiking

Travel

Surfing

Building Stuff