Nick Zanobini

Engineer / Innovator / Dreamer

As a former student-athlete, I learned to strive in a high-stress environment. I know first hand what can be accomplished with a competitive and passionate team focused on a common goal. I crave joining a team where delivering results and utilizing interesting technology to solve challenging problems is the main 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 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, SJ. 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 rover that drives around avoiding obstacles using OpenCV and Python.

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