

ANISHA CARTAGENA

MECHANICAL ENGINEER

Objective

Mechanical engineer with a background in manufacturing, industrial design and robotics. Capable of working on multiple projects simultaneously with high success rate. Seeking to utilize my problem solving, communication and management skills in a challenging, and innovative environment.

Professional Experience

Easy Aerial

Production Technician

Brooklyn, NY
Sept. 2021 to Current

- Build, maintain, test and release mechanical and electrical systems
- Work directly with the engineering team to improve formal documentation including designs, manufacturing processes, work instructions, wire diagrams, designs and quality control procedures
- Conduct work with a focus on customer satisfaction and/or exceeding customer expectations by performing basic troubleshooting of system

Nanotronics

CNC Assistant

Brooklyn, NY
June 2021 to Aug. 2021

- Kept machine shop running efficiently by:
Preparing stock, cutting to length on chop saw, deburring, post processing machined components, sanding, media blasting, tumbling and maintaining chip and coolant levels.
- Carried out daily, weekly, and monthly maintenance by cleaning an organizing machine shop space, reducing idle time by 3 hours per week.
- Monitored machine (HAAS milling/ lathe) operation and operate jobs that have been setup by senior machinists, increasing production by 1000%.

Good Shepherd Services

Junior Grants Writer

New York, NY
June 2016 to Sept. 2021

- Write and submit grant proposals/reports to private/public funding sources.
- Conducted research on potential prospects using a database that houses 100,000+ accounts, information used for funding strategies.
- Maintained accurate records of grants and enter data into internal database.
- Promoted 5 times due to ability to adapt and quickly learn.

Brooklyn Navy Yard Development Corporation

Mechanical Design Consultant

Brooklyn, NY
July 2020 to Aug. 2020

- Trained students for three weeks to take the Solidworks Associate Certification Exam (CSWA).
- Created course curriculum, provided lessons, exercises, quizzes and practice exams on Google Meet.

HoneyBee Robotics

Mechanical/Robotics Engineer Intern

Brooklyn, NY
June 2019 to Aug. 2019

Project - Miniature Pipe Inspection Robot

- Built trenchless pipe inspection robot prototype for utilities and pipeline operators within projected timeline.
- Analyzed and modified electrical circuit to meet specific requirements for testing.
- Modeled robot on Autodesk Inventor and printed all parts on Ultimaker machines.
- Programmed all electrical components using Python 2.7 and Robot Operating System on Linux.
- Drafted final report and test plan for project and presented progress to entire company.
- Mentored by a team of engineers ranging from mechanical, electrical and software.

NYCCT

Mechanical Design Engineer

Brooklyn, NY
Aug. 2019 to Dec. 2019

Project - RC Airplane

- Supervised a team of six to design, assemble, program and test a 3D printed RC airplane with camera.
- Used Solidworks and printed all parts on the Flash Forge Printer.
- Formed code for nine Channel transmitter remote with module and iA8 receiver for airplane control.

Mechanical Design and Robotics Engineer

Sept. 2017 to Aug. 2019

Project - Feedback Control Arm

- Led a team of five to create identical robotic arms where one mimics the other through wireless transceivers.
- Rendered robotic arms using AutoDesk Inventor and Solidworks.
- Developed a serial communication protocol for Master-Slave function using XBee radio modules.
- Programmed five Dynamixel motors in each arm to work simultaneously and added a feature for recording movements.
- Placed first in Brooklyn Navy Yard competition, with article in the Brooklyn Daily Eagle.

Contact

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Education

New York City College of Technology

Bachelors in Mechanical Engineering 2019

- Measurement, Materials & Safety NIMS Certification 2021
- Geometric, Dimensioning, and Tolerancing Certification 2018
- Drone & Aviation Club, Member
- American Society of Engineering (ASME) Student Chapter, Secretary

Skills

Languages: Fluent in English, Spanish, and beginner in French (A1)

Technical: Proficient in Adobe Acrobat Pro, Arduino IDE, AutoCAD, AutoDesk Inventor, Solidworks, MasterCam, Matlab, Microsoft Office, Raiser's Edge, Python, Robot Operating System (ROS), HTML, Six Sigma Methodologies

Manufacturing:

Skilled in Computerized Numerical Control (CNC), 3D Printing, Drill Press, Mills, Lathes

Awards

Brooklyn Navy Yard Competition Mar. 2019
1st Place - Feedback Control Robotic Arm

Brooklyn Navy Yard Competition Mar. 2018
1st Place - DynaArm