

Onkar Dhillon

SKILLS

Java, C++, Python, C, MySQL, Web Development, PHP, Computer-Aided Design, Computer-Aided Manufacturing, Autodesk Inventor, Autodesk Fusion 360, Adobe Creative Cloud, Google Suite, Excel, PowerPoint

EXPERIENCE

NYC FIRST, Stem Center at Cornell Tech — Program Coordinator | Previously STEM Instructor

July 2022 – Present

- Collaborated with a nine-person team to design and build a robot using 2D design (Adobe Illustrator, Autodesk Fusion 360, Cricut Design Space), and 3D fabrication (3D printers, laser cutters, CNC machines, powder coating, molding)
- Trained teachers of a new school to prepare them to be mentors of robotics teams as well as incoming first-year students of a new school to prepare them for a future in robotics (designing robots, understanding the competition, creating custom mechanisms, programming using Java)
- Designed and fabricated a U-channel structure organizer and a motor box organizer as an independent project

Robotics Summer Bridge, HS for Construction Trades, Engineering, and Architecture — Intern

July 2021 – August 2021

- Created a robotics curriculum for a 6-week summer bridge program (Python/ Block programming, Autodesk Inventor, Architectural design)
- Leading a group of 20 incoming freshmen in a classroom environment

Robotics Team, HS for CTEA — Team Captain | Previously Lead Programmer

September 2019 – April 2022

- Led the robotics FIRST Robotics Competition team: 8739 to World Championships
- Led FIRST Robotics Competition Team: 8739 and First Technical Challenge Team: 16798
- Leading a group of 24 freshmen to seniors while teaching them about FIRST and robotics
- Self-taught Java programmer and taught other programmers on the team in Java.
- Organizing meetings and fundraising

Monkey Fist Martial Arts, Location — Martial Arts Instructor

February 2016 – June 2021

- Started as a volunteer and then offered a job
- Taught self-defense classes and led summer camps for children and adults from 2 – 25 years old.

EDUCATION

Adelphi University, Garden City, NY — Candidate for B.S. in Computer Science and B.S. in Physics

August 2022 – May 2027

I am on track to receive a B.S. in Computer Science and B.S. in Physics.

High School for Construction Trades, Architecture, and Engineering, Ozone Park, NY — Advanced Regents Diploma 4.0 GPA

September 2018 – June 2022, Ozone Park, NY

Passed the NOCTI Exam