

# Michael Zhang

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## EDUCATION

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**New York University- Tandon School of Engineering**  
Mechanical Engineer | GPA: 3.89 /4.0

**Expected Graduation:**  
**June 2022**

### Notable Coursework

Statics, Physics (electrical, magnetism, kinematics, optics, waves), Thermo and Fluid dynamics, Dynamics, Statistics, Data analysis, Mechanics of Materials, Material Science, MATLAB, Algebra-Calculus III, Linear Algebra, Finite Element Design, Machine Design

## EXPERIENCE

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**Gunn Robotics**  
Business Lead, Lathe Mechanic

**Sept 2016–Aug 2018**  
**Palo Alto, California**

- Received Chairman's and Woodie Flowers awards for excellence in Business Plan analysis and presentation.
- Prototyped gear pickup mechanisms in 2017's Arizona Regional 1st place robot.
- Lead Lathe Machinist, fine tuned and turned ~80% of circular machine parts out of 200 parts to meet assembly deadline.

**Stanford Assistant Researcher**  
Laboratory Intern under Professor Yanmin Yang

**July 2016–September 2018**  
**Palo Alto, California**

- Studied BDNF's effects on a Huntington Diseased brain and helped increase neural-culture success rate by 20%.
- Created curriculums for incoming interns, teaching basic lab protocol, theory, and presentation skills.

## PROJECTS

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**NYU Building Renovation**

**Sept 2019–Dec 2019**

Single handedly designed LEED Platinum certified 11 story NYU buildings complete with cafeterias, dorm rooms, tennis gym, rooftop Garden. From a pool of 100+ teams, qualified for the Nick Russo award for the most innovative and creative designs.

**Portfolio Website**

**July 2020-Current**

Problem solved, networked to software engineers, and self-taught React to create personal website, michael-zhang.me. With 1000+ lines of code and includes slideshows and animated titles on project pages, full resume replica, and landing page. Over 300+ hours of problem solving and learning.

**Custom Built Electric Bicycle**

**July 2017-Sept 2018**

Researched 40+ part lists using online forums, interviewing bike professionals at FUJI and Specialized, and working with local bike technicians and assembled an electric bicycle from scratch. Incorporated cruise control, hydraulic disk brakes, and regenerative breaking.

**Wood and Metal Work**

**July 2015-Current**

8+ years of woodturning projects such as handmade pens, bowls, and wooden grandfather clocks, fences, garden pens. 4+ years of metal work using metal lathe and mill. Competent with hand tools and design using CAD.

## SKILLS

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**Programming:** React, Python, MATLAB, Arduino

**Design/CAD:** SolidWorks, Autodesk Inventor, Fusion360, InDesign, Autodesk Revit, CorelDRAW, Adobe Illustrator

**Shop Equipment:** Laser Cutter, 3D Printer, Metal mill, Metal Lathe, Wood Lathe, Hand Tools, Table & Bandsaw, Lab Tools