

Sichen Liang

Phone: (718)431-4806 | Email: s110445@nyu.edu | Personal Website: sichenliang.com | Makerworld: makerworld.com/en/@sichen_liang233 | LinkedIn: www.linkedin.com/in/sichen-liang-32933b2b9/

EDUCATION

New York University

09/2023-05/2027(Expected)

Bachelor of Science in *Electrical Engineering*

New York, USA

- Advanced GPA: 3.83
- Core Courses: Digital Logic and State Machine Design, Signals and Systems, Robotic Manipulation and Locomotion, Fundamentals of Electronics I, Electric Circuits, Statics, Linear Algebra and Differential Equations, Calculus III, Physics II

TECHNICAL SKILLS

- **Programming & Tools:** Python, C, Excel, Verilog, Vivado, Creo, SolidWorks, ANSYS, Revit, Bambu Lab
- **Domains:** Embedded systems, motor control, PCB design, mechanical design, rapid prototyping
- **Languages:** English (Fluent), Mandarin (Native)

INTERNSHIP EXPERIENCE

XPeng Motors

05/2025-08/2025

Sophomore Intern *Department of Product Management*

Guangzhou, China

- Conducted comprehensive market research on EV adoption trends in Japan, Indonesia, and Brazil; produced analytical reports with bubble-maps visualizations and predictive demand models
- Collaborated with cross-functional engineering and product teams to perform competitive benchmarking and support early-stage product strategy discussions
- Built a custom web-crawler and Excel automation workflow to streamline Hong Kong sales-tracking reports, significantly improving data aggregation efficiency and reducing manual processing time

LAB EXPERIENCE

Biomechanics and Intelligent Robotics Lab

10/2025-Present

Research Assistant, Supervisor: Dr. Hao Su (Associate Professor at New York University)

- Designed a custom PCB for distributed motor-control modules, integrating drivers, sensing units, and embedded safety protections for real-time actuation
- Programmed coordination firmware to synchronize multi-joint motor behavior, improving closed-loop response stability and control accuracy
- Modeled motor housings and structural components for robot-assisted neurointervention/thrombectomy systems using Creo; optimized designs for manufacturability and assembly
- Evaluated human-exoskeleton interaction using motion-tracking and balance-assessment workflows, focusing on gait symmetry, user intent detection, and control robustness

PROJECTS EXPERIENCE

NYU Tandon Building Redesign Project

09/2024-11/2024

- Directed conceptual redesign of the NYU Metro 6 building layout, coordinating architectural sketches and system-integration planning
- Built full-scale digital models in Revit, including electrical mechanical and plumbing systems routing
- Fabricated a scaled physical prototype to validate structural configuration and spatial functionality

EXTRACURRICULAR ACTIVITIES

NYU Cycling Club-Vice President

09/2023-Present

- Organized and hosted two University-wide Club Festivals, overseeing event promotion, and recruitment of 100+ participants
- Led weekly structured training sessions focused on sprint mechanics, interval conditioning, and bike-handling control
- Managed logistics, budgeting, and safety protocols for regional racing events, including long-distance travel and planning

ADDITIONAL INFORMATION

Technical Hobbies & Projects: Designed and 3D-printed longboard components; CNC-prototyped a carbon-fiber deck

Awards: Champion, 2023 Beijing Longboard Marathon (U18 Division); 7th Place, 2025 Reddish Knob Downhill Race (Open Class)

Interests: Robotics, control systems, autonomous vehicles, embedded systems