

# Jonathan C. Meng

Hampton, NH | mengjc@umich.edu | 603.926.9995 | www.linkedin.com/in/jmeng-1702

## EDUCATION

---

### University of Michigan

**Expected Grad: Dec. 2024**

*Electrical Engineering, Bachelor of Science in Engineering (GPA: 4.0/4.0)*

*Ann Arbor, MI*

*Computer Science, Bachelor of Science in Engineering (GPA: 4.0/4.0)*

**Coursework:** Electronic Circuits, Engineering Electromagnetics, Electrical Engineering Systems Design, Quantum Nano Technology, Data Structures & Algorithms in C++, Mechanics and Materials, Honors Multivariable Calculus

### Phillips Exeter Academy

**Sept. 2017 - June 2021**

*Highest Honors English Diploma (GPA: 10.4/11.0)*

*Exeter, NH*

**Languages:** C++, Java, Python, R, MATLAB, C, VBA, LaTeX

**Skills/Tools:** CAD/CAM, Arduino, Git, Ubuntu, Excel, VMWare, Siemens NX

## EXPERIENCE

---

### Allegro MicroSystems

**May 2022 – Aug. 2022**

*Development Product Engineering Intern*

*Manchester, NH*

- Overhauled and documented integration of new management software with existing product flows and records for team of ~50 engineers, increased importing + data-logging productivity by 95%
- Conducted a temperature and spike studies using Eagle testers, handlers, ThermoStream, and oscilloscopes
- Gained exposure to semiconductor company and hands-on experience with industry software, procedures, and systems including company's VM, security protocols, data-logging, and testing systems

### "Self-cleaning materials" Research Project by Dr. Wei Lu

**Jan. 2022 – June 2022**

*Undergraduate Student Researcher*

*University of Michigan*

- Researched, designed, and tested a self-cleaning material dependent on surface morphology, 6 tested designs
- Introduced, researched, and validated 3D printing with thermoplastic as viable fabrication technique
- Learned and followed lab safety principles, keeping a lab notebook, quantitative and qualitative analysis

### Spring Terminal Hackathon Runner-Up and Global Championship Qualifier

**Apr. 2022, July 2022**

*RKC Team Member*

*Remote*

- Designed and developed Python AI to play novel resource-management, tower-defense strategy game
- Won \$3.5k, went undefeated until grand finals in competition against 180+ undergraduate, graduate, and PhDs

### University of Michigan Solar Car Team

**Sept. 2021 - Present**

*Electrical - High Voltage Division Team Member*

*University of Michigan*

- Created plan to characterize and validate Aevum's battery by running cell and module-level tests for comparison against battery's State of Charge model and to tune simulation's Kalman filter
- Researched battery chemistries, documented safe module use, and modelled parts of car with Siemens NX
- Wrote clear team documentation and worked hands-on in a project-focused engineering team

### Physics Club

**Sept. 2017 - June 2021**

*Co-Head and US Invitational Young Physicists' Tournament (USIYPT) Team Leader*

*Phillips Exeter Academy*

- Planned, researched, and presented weekly educational physics lectures while incorporating feedback from club members to improve future content and increase engagement, grew lecture attendance by ~50%
- Generated and compiled list of new interview questions and interviewed co-head applicants to assess physics knowledge, enthusiasm, plans for the club, and commitment

## HONORS & AWARDS

---

**Tau Beta Pi First Year Student Award (\$500)** – for excellence in academic achievement, character, and ethics

**USIYPT 2021 Winner** – led team to win in international competition judging research, presentation, and curiosity

**Author on two published papers** – credit for editing graduate research papers for Beijing U. of Chem. Technology