

Matt Wang

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OBJECTIVE: Seeking an engineering-related internship to gain experience and expand my technical skillset.

EDUCATION

Princeton University

Princeton, NJ 08544

(2015-present)

Pursuing B.S.E. in Electrical Engineering (ELE)

GPA: 3.88/4.00

Lynbrook High School

San Jose, CA 95129

(2011-2015)

Graduated Valedictorian

GPA: 4.00/4.00

SKILLS

Software Applications/Languages: Proficient in Java (2 years), Verilog HDL (6 months), MATLAB (6 months).

Familiar with 3D Mechanical CAD (Autodesk Inventor), Python, HTML, CSS, Javascript, jQuery, MS Office.

Hardware: Familiar with oscilloscopes, function generators, breadboards, soldering, logic circuits.

Biological Research Techniques: Cell plating, PCR, gel electrophoresis, soil treatment, statistical analyses.

Languages: English, Mandarin Chinese, and Spanish.

RELEVANT COURSEWORK

Fall 2015: ELE 206/COS 306 – Contemporary Logic Design

Spring 2016: ELE 201 – Information Signals, COS 126 – General Computer Science

SELECT ACADEMIC PROJECTS

Princeton University Computer (PUnC) – Verilog HDL

- Design and build 16-bit processor programmed in Verilog, synthesize on an FPGA.
- Program functionalities of LC-3 instruction set into controller/datapath implementation of fetch-decode-execute cycle.

Shazam – MATLAB

- Implement functionality of Shazam using peak-pair matching in spectrogram analysis.

Atomic Nature of Matter in Brownian Motion – Java

- Analyze video frames of beads undergoing Brownian motion, to derive the Boltzmann constant and Avogadro's number.
- Process images with thresholding, identify beads with depth-first search, and analyze data with relevant physics equations.

WORK EXPERIENCE

The Ivy Advisor, Office Assistant and Tutor

(2015)

- Tutored two international Chinese students in Algebra 2 and English Grammar.
- Reorganized/rewrote website text for new website (current), conducted basic clerical work and tech support.

ShareWorld Learning Center, SAT Tutor

(2015)

- Tutored student two hours every day for two weeks. Aided in 250-point increase in score.

Young Scholars Program, Research Intern

(2014)

- Studied Anaerobic Soil Disinfestation (ASD) as lab intern in USDA-ARS lab, UC Davis.

ACTIVITIES

Princeton iGEM Team, Member

(2016-present)

- Study technology and conduct labwork within biochemistry/bioengineering for 2016-2017 competition season.

Lynbrook Science Club, Secretary

(2011-2015)

- Captain of Ocean Sciences Bowl Team, Finalist Team at Sea Lion Bowl 2015 amongst 12 teams.

Lynbrook Health Occupations Students of America (HOSA), Vice President

(2014-2015)

- Founded high school branch of HOSA at Lynbrook with team of officers.
- Planned health fair, and wrote tests and created lab materials for mock HOSA conference hosted at school.

Lynbrook Robotics, Event Manager

(2011-2013)

- Writer and editor for team newsletter, *Monkey Business*, regarding team affairs and updates.
- Major contributor to outreach website, *Because Robots*, about innovative new robots and their functionalities.