

Rachel Connolly

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EDUCATION

University of Michigan, Ann Arbor, MI

Sept 2018 - May 2022

BSE in Computer Engineering, International Minor for Engineers

GPA: 3.44 / 4.00

Coursework: Data Structures and Algorithms, Computer Organization*, Electronic Circuits and Laboratory, Logic Design, Differential Equations, Discrete Mathematics*

SKEMA Business School, Sophia Antipolis, France

Jan 2020 - Mar 2020

CEA Study Abroad

EXPERIENCE

U-M EECS Department, Ann Arbor, MI

Aug 2019 - Dec 2019, Aug 2020 - Present

Instructional Aide

- Led a weekly lab section to teach fundamentals of coding and data structures in C++
- Held weekly office hours to resolve IDE and logic errors in student projects
- Wrote test questions, proctored exams, and graded student responses

Michigan Electric Racing, Ann Arbor, MI

Sept 2018 - Dec 2019

Controls Division

- Engineered BEV to compete in Collegiate Formula SAE competitions
- Developed HV safety loop in C to transmit DTCs over CAN with a microcontroller
- Analyzed real-time telemetry data during 2019 Formula North SAE competition

Subway, Livonia, MI

Jul 2019 - Aug 2019

Sandwich Artist

- Served customers in a timely and respectful manner
- Organized stock and equipment quickly and efficiently

PROJECTS

Personal Website (<https://rachcon.github.io/personal-site>)

May 2020 - Present

- Built a website with Vue.js to showcase academic achievements and creative interests
- Integrated public APIs to advance web development skills

Electronic Laser Harp, Ann Arbor, MI

Jan 2019 - Apr 2019

Microprocessors and Toys (ENGR 100)

- Synthesized a laser harp instrument in a team of four using Altera DE2 boards
- Integrated a camera, VGA monitor, stepper motor, and FPGAs with Verilog and assembly

ACTIVITIES

Girls in Electrical Engineering and Computer Science

Sept 2018 - Present

- Acquired professional skills at panels and career-building events
- Networked with mentors and professors in my field of study

SKILLS

Programming Languages: C++, C, Java, Verilog (HDL), HTML/CSS, Vue.js

Software: MATLAB, LTSpice, LabView, Simulink, Git

Training: High voltage safety, Test bench/Circuit laboratory, Basic machinery,

Languages: French (Proficient), Greek (Intermediate)