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, Logic Design, Differential Equations, Discrete Mathematics

SKEMA Business School, Sophia Antipolis, France *Jan 2020 - Mar 2020*
CEA Study Abroad

EXPERIENCE

Michigan Electric Racing, Ann Arbor, MI *Sept 2018 - Present*
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

EECS Department, University of Michigan, Ann Arbor, MI *Aug 2019 - Dec 2019*
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

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 *May 2020 - Aug 2020*
- Building a website with Vue.js to showcase academic achievements and creative interests
- Integrating public APIs to advance my 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++, Verilog (HDL), Java, HTML/CSS, Vue.js
Software: MATLAB, Simulink, Git, Slack
Training: High voltage safety training, Basic machinery training
Languages: French (Proficient), Greek (Intermediate)