# Basel Timothy Kamoua

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## Education

### Bachelor of Science and Engineering | 09/2018 - Present | University of Michigan – Ann Arbor

- Major: Computer Science, GPA: 3.751
- Relevant Course Work: EECS 281 - Data Structures and Algorithms, EECS 370 - Computer Organization, EECS 280 - Programming and Intro Data Structures, EECS 203 - Discrete Mathematics,
  Math 214 - Applied Linear Algebra, SI 339 - Web Design, Development, and Accessibility

### High School Diploma | 09/2015 - 06/2018 | Ward Melville High School

## Related Experience

### Software Developer | University of Michigan Solar Car Team | 09/2018 - Present

- Develop software technology for the team's upcoming American/World Solar Challenges.
- Projects: Solar Car Race Simulator (C++), CloudMap (Django/Python/JavaScript), Weather Prediction(MATLAB)
- Responsible for organizing meetings outside of General Team Meetings with teammates to ensure deadlines are met.
- Volunteered at the University of Michigan Festifall and Northfest Solar Car Booth to recruit and raise awareness for the team.

### Biomedical Engineering Workshop | Stony Brook University | 06/2018 – 08/2018

- Developed technology designed as a preventative measure for Achilles tendonitis, plantar fasciitis, stress fractures, etc. by monitoring the user's pressure/acceleration at key points on the foot.

### Optoelectronics Volunteer Lab Assistant | Stony Brook University | 09/2017 – 05/2018

- Contributed to optoelectronics research through design and implementation of single beam photometer apparatus using CorelDRAW design software, 3d printing, and soldering skills.

## Related College Projects

### Solar Car Simulator | University of Michigan Solar Car | 01/2020 – 03/2020

- Developed World Solar Challenge race simulator and programmed race speed optimization using gradient descent with C++ and MATLAB.

### Stock Market Simulator | 02/2020 – 03/2020

- Programmed stock market simulator using C++ that efficiently simulates buying and selling order of stocks and calculates the most profitable time to buy and sell each stock.

## Achievements

- University of Michigan | University Honors/Dean's List | 2018-2019
- 2018 National Merit Scholarship Commended Student
- AP Scholar with Distinction | 2017-2018

## Skills & Abilities

- Strong knowledge of C++, Python, HTML, CSS, Django, and Git/GitHub. Moderate knowledge of JavaScript, Java, and MATLAB.
- Website: https://tkamoua.github.io/