

Ashleigh Simonis Resume

116 N. State St., Ann Arbor, MI 48104
(734) 882-9533 • asimonis@umich.edu

EDUCATION University of Michigan

Ann Arbor, MI

Expected April 2022

- Bachelor of Science in Naval Architecture & Marine Engineering
- GPA: 3.98
- Relevant Coursework: Calculus, Physics, Technical Writing, Materials Science, Marine Dynamics, Fluid Mechanics, Vessel & Platform Design, Marine Structures, Power & Energy Systems, Foundations of Ship Design, Systems Production Business Strategy and Operations Management, Marine Robotics, Algorithm Development & Convolutional Neural Network Training, Computational Fluid Dynamics

EXPERIENCE University of Michigan

Undergraduate Research Assistant

Ann Arbor, MI

04/2021-04/2022

Advised by Dr. Yulin Pan & Alexander Hrabski

- Research the effects of nonlinear dispersive waves
- Assist in running the simulations and collecting data
- Generate codes to assess the data distribution of the simulations

Grader

Ann Arbor, MI

08/2021-12/2021

NA 340, Department of Naval Architecture & Marine Engineering

- Responsible for evaluating and recording assignments.

Graduate Student Research Assistant

Ann Arbor, MI

05/2022-Present

FPEL Laboratory, Department of Naval Architecture & Marine Engineering

- Conduct research in the field of wave turbulence

Graduate Student Instructor

Ann Arbor, MI

Starting 08/2022

NA 470/475, Department of Naval Architecture & Marine Engineering

- Deliver and grade assignments
- Teach a lab section covering the fundamentals of ship design and required software
- Create design and analysis tools for the students

RELEVANT SKILLS

- Programming Languages: C/C++, MATLAB, Mathematica, Visual Basic, Python, Fortran
- Software: SOLIDWORKS, AutoCAD, GHS, Rhinoceros, Maxsurf, OpenFOAM, Microsoft Office

AWARDS & ORGANIZATIONS

- Tau Beta Pi - Michigan Gamma
- College of Engineering - Distinguished Academic Achievement (2022)

EXTRACURRICULARS

Athletics South Africa

- Cross Country State Champion (2016)
- U/20 5000m & 3000m State Champion (2016)
- U/20 10 Kilometer Road National Champion (2016)

LANGUAGES Proficient in English and Afrikaans