

Zachary M. Vig

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A passionate and engaged student looking for support toward gaining degrees in both Physics and Geosciences. Plans to do Geophysical research at the University of Iowa while in undergraduate schooling, and will hopefully continue this work into graduate school and beyond.

Education

The University of Iowa, Iowa City, Iowa

2018 - 2022

B.S. Physics, B.A. Geosciences

GPA: 4.00/4.00

Mount Vernon High School, Mount Vernon, Iowa

2014 - 2018

GPA: 4.00/4.00

Work Experience

Grounds Crew Member

Summer 2016 and Summer 2017

Kernoustie Golf Club, Mount Vernon, Iowa

- Maintained course conditions, including punctual, daily mowing every morning
- Became self-sufficient in my daily duties and was able to work without supervision

Stock Person

Summer 2018

Hobby Lobby, Cedar Rapids, Iowa

- Stocked shelves by following specific instructions
- Maintained high customer service standards

Research Experience

Research Assistant

Fall 2018 - Spring 2019

- Under Dr. Steven Spangler at the University of Iowa
- Analyzed solar flux data to determine large scale patterns in the solar cycle.
- Data Processing and Analyzation using Python (see Relevant Skills)

Awards, Honors and Memberships

Eagle Scout Award

Spring 2018

- Member of Boy Scout Troop 40 as a Scout Leader

Academics

- National Honor Society Fall 2017
- Hills Bank National Youth Salute Fall 2017
- 5-time first place medal winner at the State Science Olympiad Tournament Spring 2015 - Spring 2018
- Science Olympiad Varsity Letter recipient Spring 2017 - Spring 2018
- Member of the Society of Physics Students (SPS) at the University of Iowa Fall 2018 - Current
- Awarded the Shoemaker-Strickler Memorial Scholarship in Physics Spring 2018

Music

- All-State Musician in High School (Viola) Fall 2018
- Member of the University of Iowa Symphony Orchestra Spring 2018 - Current

Volunteer Work

- Music Ministry at the Newman Catholic Center Fall 2018 - Current
- Various community service opportunities through the Newman Center Fall 2018 - Current
- Odyssey Children's Theatre Intern Winter 2016 - Winter 2017
- Various Society of Physics Students Volunteer Opportunities Fall 2018 - Current

Relevant Skills

Computer Programming

Intermediate Knowledge

- Use of Python 3.0 to process and analyze data
- Most work done using the Matplotlib module for data visualization

Adobe Photoshop

Basic Understanding

- Have used photoshop to edit numerous photographs
- Can create infographics, posters and other informational flyers

Use of Power Tools and Machinery

Adept Experience

- Gained experience from FTC robotics and Science Olympiad in high school
- Took woodshop in high school as well as learning in Boy Scouts

Scientific Reading/Writing

Beginning Knowledge

- Worked with Dr. Spangler on reading, understanding and analyzing scientific papers for research purposes