College Address:

11500 K Foxtrail Lane Blacksburg, VA 24060

Corey Spohn

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1286 Auburn Grove Lane Reston, VA 20194

RESEARCH EXPERIENCE

Jan 2017-Present Research Assistant for The NIFI Group, Virginia Tech

- •Designed and carried out experiments to study passive anti-frosting surfaces as well as the mechanics of inter-droplet ice bridging.
- •Wrote Python applications to speed up research calculations and data processing.
- •Conducting further experiments and preparing to present at the APS DFD 2017 conference.

Mar 2017-Present Team Leader for Robotics Capstone Design Project, Virginia Tech

- •In charge of meetings, programming, communicating with advisers, and resolving team disputes.
- •Researching and writing a Python human-robot interaction model that predicts crowd movements in response to robotic intervention during a panic situation.
- •Building a team of robots that use pursuit/evasion algorithms and motion tracking to play Sharks and Minnows with humans in order to refine our human-robot interaction model.
- 2016

Research Assistant for The Socha Lab, Virginia Tech

•Used a 3d motion capture system to analyze how flying snakes cross gaps between branches.

LABORATORY EXPERIENCE

2017

Mechanics Lab, Virginia Tech

- •Performed experiments and signal processing to measure strain, pressure, temperature, and acceleration using both National Instruments and Arduino systems.
- •Engineered a small, autonomous system to alert cyclists of approaching cars.
- 2016

Mechanics of Materials Lab, Virginia Tech

- Performed tensile, fracture, compressive, and other fundamental tests on polymers and metals using Instron and MTS testing machines.
- 2016 | Fluid Mechanics Lab, Virginia Tech
 - •Performed drag tests on various bodies, flow analysis, and scientific writing.

EDUCATION

Virginia Tech

B.S. Engineering Science and Mechanics, Graduating May 2018

B.S. Physics, Graduating May 2018

Minors: Math, Astronomy

GPA: 3.74

COMPUTER SKILLS

Intermediate Knowledge | Python, Arduino, Mathematica, MATLAB, Microsoft Office

Working Knowledge | C, C++, HTML, Inventor, GitHub, LATEX

Public Projects | github.com/CoreySpohn

SCHOLARSHIPS AND HONORS

2017 | Hugh D. Ussery Physics Scholarship

•Awarded for excellence in scholarship and a promising career.

2014, 2015,

Robert C. Richardson Physics Scholarships

and 2016 Awarded for academic talent, responsibility, and industry.

2016 | Sigma Pi Sigma Physics National Honors Society

2012 | Eagle Scout

OTHER WORK AND VOLUNTEER EXPERIENCE

2014- Preschool Teacher, Reston Children's Center

Present • Work as a substitute teacher for 2-5 year-olds while on break from school.

•Volunteer when no substitute is required.

2014- Food Technician, Virginia Tech Dining Services

2015 • Trained in customer service and delivered quality service in a fast paced environment.