Oisin Biswas

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Education

Bachelor of Science in Biomedical Engineering

The University of Maine

Expected Graduation: May 2020

Cumulative GPA: 3.77

Work Experience

Research Assistant – Virtual Environment and Multimodal Interaction Laboratory (VEMI)

University of Maine

September 2018 – Present

- Engineered prototype devices to detect light reflection from micropatterned paper samples.

- Designed prototypes in SolidWorks CAD software.

- Designed and 3D printed parts to be integrated into prototype device.

- Formulated repeatable research methods to investigate the determination of surface contamination by light reflection.

- Learned ImageJ software to use in image analysis regarding light reflection detection.

- Developed virtual environments within Unity Engine.

- Created a multiplayer virtual reality dodgeball game in Unity.

- Supplemented development projects with C# programming language.

- Worked in a collaborative, multidisciplinary team environment.

Research Assistant - Howell Biointerface and Biomimetics Lab

University of Maine

May 2018 – August 2018

- Created experimental methods to investigate the bacteriostatic nature of cellulose nanofibers.

- Obtained Biosafety Level 2 (BSL2) safety training certification to complete experiments using various species of bacteria.

- Worked in conjunction with Zephyrus Simulation to create standardized patient vests for use in medical training of nurses.

Brewer Recreation Department

Camp Caper

Summer 2014, 2015, 2016, and 2017

- Involved in managing and regulating camp environment.

- Created and led various activities for campers.

- Ensured safety of camp and surroundings.

- Facilitated recreational programs open to the public.

Honors and Awards

Dean's List

2016, 2017, 2018, 2019

- Awarded to students who earned a grade point average of 3.5 and above for the semester.

Maine Space Grant Consortium (MSGC) Undergraduate Research Fellowship

2019

- Awarded $1,100 for research project titled, "Surface Contamination Detection Method using Structural Color Analysis."

- Results to be presented at 2020 University of Maine Student Research Symposium.

School Organizations

Tau Beta Pi Engineering Honor Society

The University of Maine

2019

- Inducted into honor society consisting of students in the top 20% of the engineering class.