

Jack Mork

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ

Bachelor of Science in Physics

Expected May 2021

GPA: 3.74 | **Awards:** Presidential Scholarship, DePietro Endowed Scholarship, Dean's List

Coursework: Mathematical Methods, Physics of Biological Systems, Probability and Statistics, Physics Lab, Scientific Computing, Circuits Lab, Microbiology, Chemistry Lab

SKILLS

Software: Labview, Microsoft Office, Matlab, Mathematica, VPython, CAD(basic), AccuRT(Debian 9 VM)

Programming: HTML/CSS(basic), Javascript(basic)

ACADEMIC PROJECTS

Stevens Institute of Technology | Hoboken, NJ

Thermal Acoustic Refrigeration Tube

1/20-5/20

- Performed virtually on a team to develop a way to refrigerate using standing waves in a tube.
- Developed a simulation for the team to measure the efficiency of our prototype.
- Configured a working prototype despite the whole team working remotely.

Quadrat Method, Ripley's K Function, and The Eastern Teaberry

3/20-5/20

- Single-handedly designed and constructed a quadrat in order to find a correlation between the statistical distribution of the Eastern Teaberry and its distance from a local body of water.
- Utilized Wolfram Mathematica to apply the Ripley's K function in order to measure the statistical distribution of the Eastern Teaberry.

Visual Resonance Tube

10/19-12/19

- Produced a tool to visualize standing wave interference using a tube as a cavity, a speaker as an exciter, and cork dust and bubbles as mediums.
- Created a visual and numerical simulation in Labview for the team to determine what materials and dimensions were necessary to build a prototype.

LEADERSHIP EXPERIENCE

Heroes and Cool Kids, Manchester Township High School | Ridgewood, NJ

9/15-5/16

- Collaborated with peers in order to educate local middle schoolers about making the right choices.
- Prepared personal stories and lessons to present in their classrooms three times a year.

ACTIVITIES

Stevens West Castle Point Radio, Developer Student Club, Piano, Guitar, Photography, Graphic Design, Video Editing

WORK EXPERIENCE

Stevens Institute of Technology | Hoboken, NJ

Learning Systems Management

2/21-Now

- Organized and formatted over 100 student projects in order to upload them into an application database for the Stevens Engineering Expo.
- Applied knowledge of CSS and HTML in order to style and organize data for easy uploading.

Jun's Macaron Gelato | Hoboken, NJ

Food Service Worker

8/19-3/20

- Provided customer service efficiently and effectively, meeting a high volume of both in person and online orders in a small space.
- Single Handedly completely opening procedure including set up of dessert displays and receipt of deliveries.

U.S. Citizen