

# Brendan Horng

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## Education

2012- Current

Academy for the Advancement of Science and Technology

Bergen County Academies

Hackensack, NJ, 07601

## **Courses**

AP Calculus BC

Advanced Biology

IB Literature and Language

Artificial Intelligence

AP Microeconomics

Advanced Physics

Intro to Engineering and Design

Interactive Design

MAKE

Advanced Chemistry

Intro to Animation

Shell Scripting

## Experience

### **Student Council**

Representative of the Class of 2016

Webmaster

Hackensack, NJ

2014-2015

2015-2016

### **Class Council**

Representative of the Academy for the Advancement of Science and Technology

Hackensack, NJ

2013-Current

### **Bergen County Academy Global Ambassador**

Global Ambassador

Hackensack, NJ

2014-Current

- Helps represents Bergen County Academies in global exchanges and endeavors

### **Research in the field of synthetic biology**

2012-2015

- Studying vesicles and micelles to form potential precursors of life

### **Research on determining water content in asteroids**

2013-Current

- Programmed an Arduino system to capture data and wirelessly send data
- Programmed an interface between the Arduino system and a Java program to graphically display data

### **Research on muon/cosmic ray detection**

2014-Current

### **Academy After Hours**

Robotics Instructor/Assistant Teacher

Hackensack, NJ

Summer 2013

- Taught classes in Non-Routine Problem Solving and Robotics
- Worked with students spanning from grades 1-8
- Taught basic programming
- Organized class plans

## Skills

### **Computer:**

- C++, HTML, JavaScript, OpenGL, Excel, Microsoft Word, AutoCAD, Java, Python, C#, Unity, Linux Bash Scripting, Markdown, VIM, Lua, GIMP, Eclipse, Arduino, MAKE, CodeBlocks

### **Languages:**

- Spanish (Pleasantries)
- Chinese (Conversational)

### **Certification:**

- Lifeguard, First Aid

## Extracurriculars

### **USACO**

Silver Competitor

2013-Current

### **Hackathon Competitor**

HackBCA II

2015

HackRU Spring

2015

### **Violin and Piano**

2001-2014