

# SEOK HYEON HONG [BRIAN]

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## SKILLS & ABILITIES

Fluent in Java, C/C++, Verilog, MATLAB, and Android Development, experienced with Assembly(x86, MIPS & PIC), software development with utilities like, Git, Vim, Bash, and Zsh. Knowledge of basic networking, systems management/architecture, and embedded systems. Work primarily with Linux/UNIX-like systems and Windows. Proficient with Microsoft Word and Excel. Foreign Languages: Can read, write, and execute Korean to professional level.

## EXPERIENCE

### SYSTEM ADMINISTRATOR THE COOPER UNION

JAN 2016 – PRESENT

Ensure fluid upkeep of local and public network and services; manage servers and virtual machines that host such services. Work with LDAP/Kerberos/AFS integration, account setup, and data transfer.

### MATH & SCIENCE TUTOR SELF-EMPLOYED

JUNE 2015 – PRESENT

Tutored students in high school math and science, including computer science.

### PSAL FENCING REFEREE NYC DEPARTMENT OF EDUCATION

SEPT 2015 – PRESENT

### TEACHING ASSISTANT THE COOPER UNION

SUMMER 2015

Digital Electronics for the **Summer High School STEM Program**. Taught to analyze and design digital electronic circuits and Boolean arithmetic. Assisted students in designing and constructing electronics projects.

## EDUCATION

### THE COOPER UNION, 30 COOPER SQUARE, NEW YORK, NY 10003

ALBERT NERKEN SCHOOL OF ENGINEERING

2015 - 2019 (EXPECTED)

Electrical and Computer Engineering

Overall GPA: 2.9

Major GPA: N/A

*Classes taken: Calculus II, Programming Languages, Intro to Linear Algebra, Ord & Part. Differential Eq, Signal Processing & System Analysis, Data Structures & Algorithms I, Computer Architecture, Computer Security, MATLAB Seminar.*

### BRONX HIGH SCHOOL OF SCIENCE, 75 WEST 205 ST, BRONX, NY 10468

2011 – 2015

Overall GPA: 89.3 (Unweighted)

Science GPA: 91.4

Math GPA: 94.4

ACT: 33

Athletics: Boys Varsity Fencing Team (4 years)

Clubs: Math Team (9<sup>th</sup> & 10<sup>th</sup> grade)

DIY Electronics Club (11<sup>th</sup> grade)

Bronx Science Robotics Team (9<sup>th</sup> – 11<sup>th</sup> grade)

## PROJECTS

### QUADCOPTER EID101-ENGINEERING DESIGN AND PROBLEM SOLVING

FALL 2015

Designed and built a quadcopter that can fly around and pick up different sized vials.

Built using AutoCad and a 3D printer to print a few parts including the frame, mounts, and the clawing mechanism. Used a CC3D for the main flight controller.

### BSOS-REBORN <http://www.github.com/awkwardbunny/bsos-reborn>

FALL 2014 - PRESENT

Designing and implementing a kernel/operating system from scratch for learning purposes.

Currently built to be run on an x86 machine. Implemented paging, interrupt handling, and bootloader.

MORE PROJECTS CAN BE FOUND ON GITHUB PROFILE

## LEADERSHIP

### ASSOCIATION FOR COMPUTING MACHINERY @ COOPER UNION (Vice President)

2015 – PRESENT

### PANYKTECH, LLC (Chairman & Co-Founder)

2015 – PRESENT

Currently still developing company structure and in planning stages.

### BRONX SCIENCE VARSITY FENCING (Captain)

2014 – 2015 SEASON

Competed in PSAL Varsity Fencing.

Team Captain for 2014-2015 season.  
Lead the team and coached freshmen and new fencers.

**BRONX SCIENCE ROBOTICS (SCIBORGS)** (Head of Programming Dept.)

2013 – 2014 SEASON

Competed in FIRST Robotics Competition as part of SciBorgs (1155).  
Managed the programming department of the robotics team.  
Picked out members and taught them basic programming in Java.

**AWARDS** | National Merit Commendation (11<sup>th</sup> grade)  
Received by CollegeBoard

Open Fencing Tournament (March 2014)  
Foil 3<sup>rd</sup> place  
Received by Fencers Club

HackRPI Hackathon  
Best Bloomberg API Use Award (Nov 2014)  
Received by Bloomberg at Rensselaer Polytechnic Institute