Henry Post

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**EDUCATION**

**Northside College Preparatory High School,** Chicago, IL

* Graduated in 2015
* Studied AP Computer Science, participated in TechCrew and the Dirt Actualizers.

**Illinois Institute of Technology,** Chicago, IL

* Currently attending, Senior Semester.
* Will graduate in 2019, majoring in Information Technology Management
* GPA > 3.5 for freshman semester, dean's list
* Current GPA is 3.3

**VOLUNTEER ACTIVITIES**

**TechCrew,** Northside College Preparatory High School

*September 2012 – June 2013*

* Repaired student-owned computers and offered technical assistance of any kind/to the best of my and my peers’ abilities.
* Worked with other students encountering hardware/software problems, such as broken hardware or questions about specific programs.
* Set up computers by manually configuring them or mass-imaging ISOs onto them.
* Replaced computer parts of the computers of students and faculty.
* Did minor data recovery.

**Dirt Actualizers,** Northside College Preparatory High School

*2013 – 2015*

* Transported shrubbery, dirt, concrete and gravel by shovel or wheelbarrow.
* Constructed a prototype soil moisture detector as a side project.
* Worked with classmates to measure and level concrete filling for pathways.
* Weeded, planted, dug holes, and picked crops.

***Skills***

* **[2 years]** Imaging hard drives, partitioning hard drives, installing Linux and Windows Oses.
* **[2 years]** Communication with customers or clients about software or computer issues, debugging and troubleshooting
* **[2 years]** Inventory management of parts, computers, jobs, and corresponding customers.
* **[2 years ]** Replacing/diagnosing hardware on laptops, smartphones, full disassembly of phones and laptops.
* **[1 year ]** Landscaping, levelling, concrete-filling, and shoveling/pickaxing/hauling/planting/weeding experience
* **[2 years]** Building desktop computers and troubleshooting hardware issue(s)

**WORK EXPERIENCE**

**Technician, uBreakiFix**

*2016, May – July*

* Intake of damaged devices, handling workorder flow/time management, diagnosing smartphones/laptops, disassembly, repair, and reassembly of smartphones/laptops.
* Malware removal, software installation and configuration.
* Working with small electronics and laptops in-depth, part lookups by product ID numbers, troubleshooting.

**Tutor, Illinois Institute of Technology**

*2017, February – ongoing*

* Tutored the following:
* C, C++, Java, Python, light digital circuitry (mux, demux, adders, LED grids, selectors)
* CS350: Computer Organization and Assembly Programming, was done in C and LC-3 assembly
* CS330: Algorithms, was done in Python
* CS201: Accelerated Introduction to Computer Science, was done in Java.

**TUTORING EXPERIENCE**

**Voluntary/unofficial tutor, IIT**

*2015-2017*

* I've helped many peers and friends with computer software and hardware-related issues.
* Fixed computers/hardware of friends, opened up laptops and replaced/diagnosed parts
* Tutored students on file I/O, structures in java and how object-oriented programming can be used to model different things, analyzed others' code and discussed/troubleshooted with them
* Explained coding concepts to others, used own code to demonstrate ideas in CS and how to implement, *for example* a C++ class that allowed for easy creation and access to what appeared to be a 2d string array implemented upon a 1d char[] array at the lower level; That was used to demonstrate OOP concepts and abstraction, and give a tangible example of using lower-level programming concepts to create a higher-level function or object.

**Kiran Dasgupta, Student, kdasgup1@hawk.iit.edu**

Tutored in CS350, was referenced in initial application submitted to the ARC regarding chaining together half-adders to create adders capable of adding more bits together. Also helped in understanding how to translate logical expressions '(A NAND B) NOR C' into circuit diagrams. General ideas about basic logical circuits.

**Larry Jiao, Student, ljiao2@hawk.iit.edu**

Assisted in assembling a circuit with student-provided code that allowed the user to play the game of "Simon Says", with four buttons, four LEDs, and a speaker.

**Maxwell Oellien, Student, moellien@hawk.iit.edu**

Assisted in creating a circuit (and code!) from scratch with transistors, LEDs, a breadboard, and an arduino, which displayed on a 6 LEDs a random roll of a virtual die.

**John Collins, Student, jcolli13@hawk.iit.edu**

Tutored very, very heavily in MATH 152, aka CALC 1. Helped with derivatives, integrals, sin/cosine functions, limits, differentiation, integration, 3d differentiation/integration, "shell"/"disk" methods, etc.

**OTHER**

**Independent Web server/Game server Management,** Prior to Northside College Prep.

*2010 – 2013*

* Self-managed a web server that communicated with a game server through databases and PHP.
* Managed a game-web server GUI using said databases.
* Managed small databases and player requests/server administration.
* Wrote HTML, CSS and PHP with MySQL for pages.

**Arduino Soil Tester Project**

*2013 – 2014*

Soil sensor built by simple circuitry and coding in an arduino. Resistance measurements of soil by recording averages of AC current through two electrodes were how the moisture levels in the soil were determined.

**Mathematica Compression Project**

*June 2015*

Over the summer, I enrolled in an IIT Mathematica course where I coded an ASCII compression algorithm that took 256 of the most common duplets of characters in an ASCII file and compressed them into a file containing a dictionary followed by compressed data.

**Portable Desktop in a Suitcase**

*2015*

This is a project that involved building a portable desktop in a suitcase my freshman semester.

* Three rectangular holes were cut in an aluminum briefcase, one in the lower-left and the other two in the top-middle and top-right.
* All components were put on multiple custom-designed laser-cut slabs of plastic and screwed onto various locations on the plastic plates.
* The power supply was flipped upside-down and placed in the lower-left section of the case, and bolted there.
* The graphics card was rotated 90 degrees to the left and three custom mounting plates were constructed for it. The first two plates sat at the top and bottom of the card, and held it over the motherboard. The third was to fill space so that the screws on the bottom did not press into the card.
* The PCIE-16x cable for the graphics card had to be connected to an extension cable, similar to one for a bitcoin mining rig.
* A power supply cable for a screen driver for an LCD panel was soldered to the GROUND and 5V leads of a molex connector attached to the power supply, making the power for the screen self-contained.
* A USB header → USB port → wifi dongle supplies wireless, and there is a free-hanging SSD for boot and other files.