# Education

**Emme Spero**

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**UC Berkeley – Industrial Engineering and Operations Research Major**

**+ Regents Scholar Finalist**

# Programming acedemics

**Computer Programming Courses** Taken 4 years of High School computer programming. Coded in the following languages: C++, C#, Python and Java

**Game Design Course** Took a college course on game design at USC. Worked on a team with three other students. Wrote hundreds of lines of code as the team’s programmer. On my free time create games and experiences using C# and Unity.

**Tutoring and Teaching**I’ve tutored high school students in computer sciene. I’ve also worked with kids in the AP Computer Science class, and ocassioanlly teach the class. Languages I taught include:C++, C#, Python, Java and EV3.

# Programming Activities

**FIRST Robotics Competition** – Head of our Software Team I was in charge of 23 other programmers on our robotics software team. I assigned tasks, managed the software projects and coordinated with other team leaders.

**Congressional App Challenge** – Team Member Our team designed a phone app called Habit Tracker to help students create good habits. We were awarded Runner Up in Adam Schiff’s district.

**COSMOS UC Irvine: Sound for Virtual Reality** – Team Leader I learned to spatialize sound in 3D and access accelerometer as well as gyroscope data on iOS devices. Led a team to create an exercise game in Swift for the iPhone.

**Synesthesia Simulator Project** – ProgrammerUsing Unity and C#, I was able to imitate the spatialization I experience with Synesthesia.

# Community service

**FIRST LEGO League Robotics** – Site Lead – *255 hours* Head Mentor/Site Lead in charge of two schools and four robotics teams. I recruited and oversaw other robotic mentors, communicated with parents and kept teams on track. Mentored for more than 5 years.

**Robotics Summer Camp & iCode** – Mentor – *30 hours*

After school and during the summer, I teach kids computer programming at the library, challenging them to explore their engineering spirit.

**NCWIT Aspirations IT** – Mentor / Speaker – *18 hours*

Using a grant from NCWIT Aspirations IT, I worked with several Girl Scout troops to teach them everything from programming to dreaming big. The goal was to get more girls involved in science and technology.