

# Charles Hager

Website : [clhager.github.io](http://clhager.github.io)  
[clhager@berkeley.edu](mailto:clhager@berkeley.edu) | (914) 609-1957

## EDUCATION

### UC BERKELEY

May 2019 | Berkeley, CA  
Cum. GPA: 3.627 / 4.0

### EL. ENGINEERING & COMPUTER SCIENCE

College of Engineering  
Major GPA: 3.88 / 4.0

### MINOR IN MECH ENGINEERING

College of Engineering  
Minor GPA: 3.74 / 4.0

## LINKS

Github:// [clhager](https://github.com/clhager)  
LinkedIn:// [charles-hager-914b54135](https://www.linkedin.com/in/charles-hager-914b54135)

## SKILLS

General:

Java • C • C# • Python • Git  
Assembly • MySQL • MATLAB • LaTeX

Web Dev:

Javascript • PHP • HTML • CSS

CAD and other software:

Unity3D • Maya • SolidWorks •  
Fusion360

El. Engineering:

Microcontrollers • Oscilloscopes  
Multimeters • Sensors • Soldering

## COURSEWORK

### EL. ENG & COMPUTER SCIENCE

- Data Structures
- Machine Structures
- Internet Architecture
- Efficient Algorithms and Intractable Problems
- Discrete Mathematics & Probability
- Information Devices and Systems I
- 3D Modeling and Animation

### MECH ENGINEERING

- Thermodynamics
- Statics and Mechanics of Solids
- Dynamic Systems and Feedback
- Physics for Engineers

### ENGINEERING

- MATLAB Programming for Engineers
- 3D Visualization for Design
- 3D Modeling for Design

## EXPERIENCE

### HAAS BUSINESS SCHOOL | **Coder / Web Developer**

August 2017 - Present | Berkeley, CA  
Javascript • HTML • CSS • Git

- Working in a small independent team of students to develop web apps and websites for the Haas School of Business
- Working with different Google APIs to develop web apps that interpret information from Google Sheets to present in a website format

### WENLIN | **Web Developer**

May 2017 - August 2017 | Berkeley, CA (Remote)  
PHP • Apache • MySQL • GitLab

- Worked with a team of interns to resolve issues and develop new features for the Wenlin site, communicating through Skype and Slack

### DENJEAN ET ASSOCIÉS | **IT Intern**

May 2016 - July 2016 | Paris, France

- Designed mathematical models to estimate costs of employee turnover, time until a new employee is profitable, etc.
- Created online forms for HR questionnaires, applications, etc. connected to analysis models to replace the paper forms

### ADVANCED POLYMER, INC. | **Chemical Engineering Internship**

May 2015 - June 2015 | Carlstadt, NJ

- Worked in quality control to verify pH, solids content (%), etc. of chemical samples
- Produced and tested various chemical formulas for effective stain and water resistance on an array of textiles, including acrylic, cotton twill, nylon, polyester, etc. as well as concrete

## PERSONAL PROJECTS

### 16-BIT COMPUTER

Logisim • Java

Used the design software Logisim to develop a working 16-bit computer simulation. The computer has its own machine code and a basic language with a compiler (written in Java) in the works. Supports function calls, basic recursion, and basic objects. Project page [here](#) and Github Repo [here](#).

## STUDENT GROUPS

### BERKELEY HYPERLOOP (BLOOP)

January 2015 - Present | Berkeley, CA  
SolidWorks • Fusion360

- Competed at the SpaceX Hyperloop competition in Hawthorne
- Wrote the UCB Hyperloop design log, detailing the features and design of the pod and worked on the construction of the pod