

Charles Hager

Website : clhager.github.io
clhager@berkeley.edu | (914) 609-1957

EDUCATION

UC BERKELEY

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

ELECTRICAL 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

In order of experience:

Java • C • Python • MIPS • C#

MATLAB • x86 • Git • LaTeX

Web Dev:

JS • Bootstrap • Angular • Node

CAD and other software:

Unity3D • Maya • SolidWorks

El. Engineering:

Microcontrollers • Oscilloscopes

Multimeters • Sensors • Soldering

COURSEWORK

EL. ENG & COMPUTER SCIENCE

- Structure & Interpretation of Computer Programs
- Data Structures
- Computer Architecture
- 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
- Physics for Engineers

ENGINEERING

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

EXPERIENCE

HAAS BUSINESS SCHOOL | Web Developer

August 2017 - Present | Berkeley, CA

Javascript • Bootstrap • Angular • Node • Google Scripts

- Working as part of the Haas D&P Student Engineering team to make web apps and analytics for professors and other clients in the business school
- Developing responsive and flexible frameworks using Bootstrap and Angular with Node for server-side functionality
- Connecting with Google scripts to fetch or present data in a user-friendly manner

WENLIN | Web Developer

May 2017 - August 2017 | Berkeley, CA (Remote)

Javascript • Apache • MySQL • GitLab

- Developed new graphic features for the Wenlin website (Chinese/English online dictionary)
- Worked with SVG graphics and Javascript to render Chinese character stroke fanning

DENJEAN ET ASSOCIÉS | IT Intern

May 2016 - July 2016 | Paris, France

- Designed adjustable 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

PERSONAL PROJECTS

16-BIT COMPUTER

Logisim • Java

- Used the design software [Logisim](https://www.circuitjs.com/) to develop a working 16-bit computer simulation
- Developed a dedicated assembly language and binary machine code
- Supports the function call stack, recursion, structs
- Project page clhager.github.io/projects

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