

# Cameron Hudson

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## Summary

- Chemical Engineer turned Software Engineer after witnessing impact of software on process design.
- Amplifies staff productivity by building applications to automate work and prevent errors.
- Experience with full-stack web application design as well as low-level computer systems.
- Self-motivated and goal-oriented. Trusted to complete project objectives within defined time frame.

## Education

### MS, Software Engineering

Carnegie Mellon University, Silicon Valley

Mountain View, CA

2018 Aug - 2019 Dec

- Designed malloc function from scratch in the C language to gain valuable hardware insight.
- Collaborated in a 4-person group to design a web app for communication during emergency situations.
- Constructed full-stack chatroom web application with MongoDB database and Angular client interface.

### BS, Chemical and Biomolecular Engineering

Johns Hopkins University

Baltimore, MD

2008 Sep - 2012 May

## Professional Experience

### Process Engineer 2

Axens

Princeton, NJ

2016 Jul - 2017 May

Responsibilities:

- Enhanced Axens' proprietary design software, reducing man-hour costs for all future projects.
- Implemented Axens's design practices while performing Basic Engineering of sulfur treatment plants.
- Simulated sulfur treatment process with PRO/II software and calculated equipment design parameters.

### Process Engineer 1

Amec Foster Wheeler

Hampton Township, NJ

2013 Jan - 2016 Mar

Responsibilities:

- As lead engineer, team completed Front-End Engineering of customer's requirements on schedule.
- Represented company at HAZOP/LOPA safety reviews of Raw Water and Steam Generation units.
- Reviewed design calculations of two peer engineers for accuracy and consistency.
- Leveraged Visual Basic to compute the Heat and Material Balances (HMBs) for design of all equipment.

## Skills

### Programming Languages

C, JavaScript, Java, PHP, Python

### Frameworks

Node.js, Angular, Laravel

### Simulators

PRO/II, ProMax (TSWEET), KG Tower

### Markup Languages

HTML, CSS,  $\LaTeX$

### Databases

MySQL, MongoDB

### Other Interests

Science Fiction, Hiking, Board Games

## Certifications

- 2017 Nov: National Council of Examiners for Engineering and Surveying, Engineer-In-Training
- 2017 Oct: American Society for Quality, Six Sigma Green Belt