

# Carson W. Boden

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## EDUCATION

### University of Michigan, Ann Arbor — *Bach. in Computer Engineering*

SEPTEMBER 2015 - APRIL 2019 / GPA - **3.77 / 4.0** / MAJOR GPA - **3.90 / 4.0**

EECS 281 - Data Structures and Algorithms	A
EECS 370 - Computer Organization	A
EECS 373 - Embedded System Design	A-
EECS 388 - Computer Security	A-

## EXPERIENCE

### Amazon, Seattle — *Digital Content and Commerce Platform SDE*

JUNE 2017 - SEPTEMBER 2017 / **Return Offer Received**

Designed, developed, and tested tier-1 storage services and solutions. Created an onboarding UI for a shadowtesting framework allowing users to utilize the services faster and optimizing settings for internal use.

### CCC Information Services, Cerritos — *Software Engineer*

MAY 2016 - AUGUST 2016 / **Return Offer Received**

Developed parallel check-in kiosk applications for both Windows and iOS using C# and Swift. Windows application design process incrementally added features, eventually reaching MVP. Development for iOS was primarily prototypical and was handed off upon departure.

### Friction, Manhattan Beach — *Social Media Application Co-Founder*

MAY 2015 - AUGUST 2015

Co-founded FrictionApp, a humble, self-funded startup dedicated to producing a new social media platform. Worked as head of UI, front-end, and graphic design. Application terminated after closed beta, with over 50 users.

## EXTRACURRICULARS

### Eta Kappa Nu, Beta Epsilon Chapter, Ann Arbor — *Pres., Treas., Corp. Rel.*

JANUARY 2017 - PRESENT

Personally managed finances for HKN, the EECS honor society between corporations, events, and activities. Expected to manage accounts daily. Scheduled corporate talks to the organization and University of Michigan's student body. Currently oversee the chapter to set goals for the semester and serve as the external face of the organization.

### EECS 373 Final Project, Ann Arbor — *Smart Shower*

SEPTEMBER 2017 - DECEMBER 2017

Prototyped a fully automated shower that included features such as water preheating, shower scheduling, and water stream aiming. Interfaced with solenoids, keypads, serial displays, and servos to create a functional product in approximately 5 weeks.

### International Programs in Engineering, Berlin — *Robot Programming*

APRIL 2017 - JUNE 2017

Designed manual and automatic controls for warehouse robots. Created simulations in MATLAB to optimize PD controls, creating fastest path-following robot in the class.

### MPowered Entrepreneurship, Ann Arbor — *Startup High School Director*

SEPTEMBER 2015 - APRIL 2017

Led a flagship project of MPowered dedicated to encouraging entrepreneurial ventures in high school students. Contacted companies including Spark, TCF Bank, and Kellogg's to raise over \$15,000 for the project's event, reaching over 500 high school students.

## ACHIEVEMENTS

Dean's List

University Honors

AP Scholar with

Honors

National Honor

Society

## PROGRAMMING LANGUAGES

**Proficient:** ARMv8,  
C, C#, C++, Java,  
SystemVerilog

**Experienced:** CSS,  
Python, HTML,  
Swift, XAML

**Familiarized:**

Angular, JavaScript,  
jQuery, Ruby, SQL,  
Verilog

## DEVELOPMENT SOFTWARE

**Proficient:** After  
Effects, Arch, Atom,  
Eclipse, Git, Libero,  
Visual Studio

**Experienced:**  
Android Studio,  
Linux, Photoshop,  
Quartus, Vim, Xcode

## HARDWARE SKILLS

**Experienced:**  
Breadboarding,  
Circuit Design,  
Soldering