

# CAMERON ALBERG

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Champaign, IL

B.S. in Engineering Mechanics, specializing in Product Design Mechanics, *May 2017 (expected)*

- *Senior Design Outstanding Achievement Award: Disaster Relief Shelter (2016)*
- *Guest Lecturer—Statics (2016)*
- *Dean's List (Spring 2016)*
- *William R. Schowalter Award (2015)*
- *ThinkChicago Fellow (2014, 2016)*

### Relevant Coursework

Finite-Element Analysis, Computer-Aided Product Realization, Design Thinking, Engineering Design Principles, Design for Manufacturability, Mechanical Design, Industrial Design/Design Drawing

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## RELEVANT SKILLS & PROJECTS

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**Project Portfolio:** [cameronalberg.com](http://cameronalberg.com)

**Software:** Fusion 360, SolidWorks, Creo (Pro/E), Autodesk Inventor, Abaqus, MakerBot, Formlabs, Adobe Suite

**Design:** 3D printing, human-centered design, product design, rapid prototyping, freeform surface modeling

**Languages:** HTML, MATLAB

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## RELEVANT EXPERIENCE

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### Hardware Development Intern

May—August 2016

*Intelligent Flying Machines (IFM) Technologies LLC*

Evanston, IL

- Operated as lead engineer for hardware development, designed and built 4<sup>th</sup> generation quadcopter
- Optimized 3D-printed design to increase flight time by 80% and reduce size by 20%

### Mechanical Engineering Design Intern

June 2015—May 2016

*Watchfire Signs*

Danville, IL

- Designed 2 pairs of protective carts to transport signs to trade shows, reducing setup costs by \$6000 annually
- Developed thermal stress simulation tests for 3 prototypes designed to prevent warping
- Created CAD drawings daily while improving sign automation processes using Autodesk iLogic

### Student Consultant

April 2013—present

*Engineering IT Shared Services*

Champaign, IL

- Assist students with computer hardware/software issues, while maintaining lab computers and printers
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## LEADERSHIP

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### Co-Founder & Committee Leader

April 2015—present

*Champaign-Urbana Makeathon ([makersuiuc.com/cumake](http://makersuiuc.com/cumake))*

Champaign, IL

- Pioneered the universities 1<sup>st</sup> makeathon, a 36-hour physical product design competition

### Engineering Learning Assistant

August 2016—December 2016

*iEFX Projects, UIUC College of Engineering*

Champaign, IL

- Mentored teams of freshman engineers working on introductory cornerstone design projects

### Founder and President

April 2014—May 2016

*Makers at the University of Illinois at Urbana-Champaign ([makersuiuc.com](http://makersuiuc.com))*

Champaign, IL

- Founded and led a hands-on design organization with 50+ members working on 6 separate projects
- Established design team for a full-body 3D scanner, awarded 3<sup>rd</sup> place for “Most Innovative Exhibit” at EOH

### Project Manager

September 2013—June 2015

*Champaign-Urbana Business & Engineering (CUBE) Consulting ([cubeillinois.com](http://cubeillinois.com))*

Champaign, IL

- Directed project teams, communicated with clients and represented CUBE professionally
- Designed a mechanical machine to automate packaging for wheelchair grips