

# JOSHUA CHANG

1352 W Laird St. Tempe AZ 85281  
joshchang1222@gmail.com

303-408-5820  
longbowdesign.org (Portfolio)

---

## SUMMARY

Experienced Industrial/ Mechanical Designer seeking position involving rapid conceptualization/ prototyping, model fabrication, creative problem solving and drafting in a creative, fast-paced and collaborative environment. Ability to lead agile teams to develop and deploy designs in meeting aggressive deadlines.

## KEY SKILLS

- Computer Aided Design (CAD)
- Product Opportunity Gap Analysis
- User Interaction Psychology
- Product Life Cycle Assessment
- Rapid Concept Visualization
- Reverse Product Engineering
- Project & Team Management
- Human Factors & Ergonomics

**Software:** Solidworks (Modeling and simulation), Autodesk Sketchbook, Adobe CS Suite, MS-Office, Keyshot

## EMPLOYMENT HISTORY

Arizona State University Luminosity Laboratory, Tempe AZ  
**Design Lead & Supervisor**

July 2016- Present

- Developing ASUs unique model for a self-sustaining, student-led, hybrid laboratory-enterprise which will enable students to solve real-world problems and the university to accelerate innovation across the academic sphere.
- Designed laboratory sites to foster and enable collaboration among top performing students to innovate and solve difficult industry/university problems. All site designs were fully implemented and/or adopted.
- Selected, trained, and led a team of top student designers, in collaboration with engineers, to develop multiple successful designs that met or exceeded customer requirements.

Starbucks, Tempe AZ  
**Partner & Consultant**

June 2011- August 2017

- Performed barista functions with efficiency, quality, positive attitude and high-level of customer service, which resulted in earning multiple service excellence awards.
- Fostered ASU-Starbucks partnership in laboratory field, including development and presentation of innovative and highly relevant concepts to the Starbucks executive board, which has led to multiple follow-on projects.

# JOSHUA CHANG

Z-Tech Manufacturing, Tempe AZ

July 2016- September 2017

## **Mechanical Designer**

- Constructed and maintained large CAD assemblies for design presentation and manufacturing functionality enabling agile planning and machining process.
- Effectively managed clientele brand and concept design services resulting in multiple successful and comprehensive manufacturer product launches.

Mediphor Design Firm, Tempe AZ

November 2017- August 2018

## **Industrial Designer**

- Provided and presented detailed market analysis to pinpoint product opportunity gaps which enabled clients for well informed and market derived design decisions.
- Developed variety of innovative and advanced conceptual designs supporting multiple successful product launches for the firm.
- Delighted clients through working partnership and providing real-time, thoughtful design edits to shape and materialize client vision.

## **EDUCATION**

### **Arizona State University, Tempe Arizona**

- B.S. Industrial Design with Minor in Sustainability & B.A. Design Management 2018
- Magna Cum Laude (GPA: 3.75, Dean's list 2014-2018)
- Certified Solidworks Pro. MBD Mechanical Design

### **Relevant Courses**

- Geometric Dimensioning and Tolerance (Quality Control)
- Human Factors in Design
- Diversity and Organization
- Human Computer Interaction
- Organizational Leadership
- Materials and Design
- Advanced Digital Sketching

## **PROFESSIONAL AFFILIATIONS**

- Industrial Design Society of America
- Society of Automotive Engineers: Aeronautics
- Solidworks National User Group

## **AWARDS & COMPETITIONS**

- ASU Biophilia Competition: 1st place
- Global Silicon Valley Summit: Presenter
- ASURE Done Competition: 2nd Place
- Amazon HQ2: Creative Lead Arizona
- NASA & HP ISS Competition: Hon. Men.
- Congressional Art show: 3rd Place
- SAE Aero Competition: Designer
- KAYRAE-BAM! Art Show: Presenter

## **HOBBIES**

- Recurve & Compound Archery
- Boxing & Taekwondo & Capoeira
- International Travelling (25 +countries)
- Backpacking