

Elizabeth Ji Won Oh

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PROFESSIONAL EXPERIENCE

DiMonte Group, Inc.

Mechanical design engineer

Warrenville, IL

Jan. 2018 – Present

- Engage in all phases of the product development cycle, from conceptualizing new designs and proof of concepts with rapid prototyping, to testing of design iterations, supporting production and continuing improvement. Particularly focused on developing low fidelity prototypes, test fixtures or quick part modifications to validate ideas in the shop and communicating important design intent and function to domestic and Chinese vendors.
- Execute CAD and drawings for best practices of manufacturing processes and maintain legacy data to standards.
- Optimize part designs using FEA, primarily structural and thermal improvement to maximize performance.
- Drive internal project management and correspond client updates on a weekly basis at a minimum.
- Develop manufacturing jigs and fixtures for several projects to reduce labor, minimize waste and improve quality control. One project reduced labor time by 60% and scrap assemblies by 25%.

Altitude Labs

UX design and software developer summer intern

Hong Kong

Jul. 2016 – Aug. 2016

- Redesigned UI for an upcoming AI business solution, honing front end development and iterative user testing.
- Assisted in direct client communication throughout the UIUX design process of a product, application or website.

Integrated Design Automated Laboratory, Northwestern

Mechanical engineering department research assistant

Evanston, IL

Sep. 2015 – Jun. 2016

- Analyzed data on automobiles consumer patterns to predict model design combinations that significantly impact manufacturing and cost decisions by using various statistical methods and utilizing the program R.

D2 Startup Factory (D2SF) at Naver Corporation

Summer assistant investor

Seoul, Korea

Sep. 2015 – Jun. 2015

- Accelerated D2SF's venture to strategically invest overseas, propelling the team's vision to expand technology.
- Researched over 1000 companies and accelerators globally and pitched potential investments up to 1 million USD.

EDUCATION

Northwestern University

B.S. in *Manufacturing and Design Engineering*, minor in *Computer Science* and *Chinese*

Evanston, IL

Jun. 2018

- GPA: 3.81/4.00; High Honors Recipient (one quarter), Honor Roll Recipient (six quarters)
- Affiliations: Tau Beta Pi, engineering honor society. Alpha Kappa Psi, professional business fraternity.

MANUFACTURING ENGINEERING and DESIGN PROJECTS

2019 **Smart Mirror**, personal project using a raspberry pi

2017 **Pusheen Cat Injection Molded Toy** (2nd place in 2017 McCormick Injection Molding Expo)

Skills: CNC, CAD and CAM programming using DFM principles on NX, injection molding, process control

2017 **Optik**, Redesigning the Contact Lens Case

Skills: Human centered product design, plastic vacuum molding, 3D printing, rapid prototyping

2017 **Barcart**, enhancing the experience of grocery shopping

Skills: User experience research and design, interface design, human computer interaction (HCI)

Please see <http://www.elizabethjiwon.com> for a comprehensive portfolio.

SKILLS and INTERESTS

Language English (native), Korean (fluent), Mandarin (advanced)

Design Solidworks, NX, AutoCAD, Adobe InDesign, Photoshop, Experience Design, Sketching

Manufacturing Additive manufacturing, Plastic injection molding, CNC milling, Sheet metal working

Computer Matlab, C++, HTML, CSS, Java, R statistics, Excel, PowerPoint, CAM programming

Interests NZSIA Certified Ski Instructor, Violin, Food blog, Interior design