

Jessica Kang

Glenview, IL | (224) 392-9860 | JessicaKang2021@u.northwestern.edu

EDUCATION **Northwestern University**, Evanston, IL June 2021
B.S. in Mechanical Engineering (anticipated)

- Minor in Computer Science, Segal Design Certificate
- *Relevant Coursework*: Heat Transfer, Theory of Machines: Design of Elements, System Dynamics, Advanced Mechatronics, Advanced Solid Modeling, Rapid Prototyping

SKILLS *Computer-Aided Design*: Solidworks, Siemens NX
Programming: MATLAB, C++, C#, C, Java, Python, HTML/CSS
Manufacturing: CNC, injection molding, sheet metal tools, TIG welding

DESIGN PROJECTS **Northwestern Interdisciplinary Design Projects**, Evanston, IL Jan.-Jun. 2020
Client: Wagner Farm, Glenview, IL

- Worked in a multidisciplinary team to design and test a composting system to manage 60 ton manure pile
- Interacted with client and professionals to improve fully-scoped design
Skills: project management, research, prototyping, FMEA, cost analysis

Northwestern Computer Integrated Manufacturing II Course, Evanston, IL Jan.-Mar. 2020

- Worked in a team to design and manufacture a product that could be mass produced via plastic injection molding and snap-fit assembly
- Responsible for the entire injection molding process, including part design, mold design, and mold manufacturing
Skills: mold design, CAD/CAM, CNC machining, injection molding

Midwest Robotics Design Competition, Urbana, IL Mar. 2019

- Worked in a team to design and build a robot that completes tasks such as picking up balls and pressing buttons in sequence
Skills: CAD, machining, laser cutting, soldering, programming

WORK EXPERIENCE **Northwestern Aquatics**, Evanston, IL Sep. 2017– Present
Lifeguard, Work Study

- Maintain constant surveillance of patrons to ensure their safety, respond immediately to facility-wide emergencies, set up and supervise swim meets

Northwestern Society of Women in Engineering, Evanston, IL Jun. 2018/2019
STEP Camp counselor/volunteer

- Organized activities to introduce middle school girls to engineering
- Mentored girls on their final design projects

Starbucks, Glenview, IL July-Sept. 2018
Barista

- Demonstrated multitasking skills to ensure excellent customer service while preparing drinks, cleaning, cash handling, and stocking

Dynapar, Gurnee, IL cancelled due to COVID
Mechanical Engineering Intern 2020

ACTIVITIES/ INTERESTS Robotics Club, Triathlon Club, NU Heights Tutors, 3D printing