Daniel D. Kim

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Digital Portfolio
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PERMANENT ADDRESS
362 Red Coat Lane
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EDUCATION

Northwestern University, Evanston, IL
Robert R. McCormick School of Engineering and Applied Science
Bachelor of Science in Manufacturing and Design Engineering Spring 2020

Relevant Courses:
General Engineering 295 Maker's Class, Design Thinking and Communication 1 & 2, Manufacturing Processes Analysis, Electronics Design, CAD, Mechanics, Injection Molding, Optimization

PROJECTS

Safer Umbrella Stroller Project, *Northwestern University,* Evanston, IL
Client: Nancy Cowles from Kids in Danger, Chicago, IL Fall 2017

- Designed a safer umbrella stroller that minimizes child injury
- Presented final research findings to a panel of corporate professionals and the client

Building Materials Environmental Guide Database, *Northwestern University,* Evanston, IL
Client: World Wide Fund for Nature (WWF), Washington, DC Fall 2017

- Prototyped a search database that organized sustainable building materials in the event of natural disaster
- Project accepted by WWF for future development

Mechanical Brace Support System, *Northwestern University, Evanston, IL*
Independent Project. Faculty advisors Design and Biomedical Engineering Dept. Heads Winter 2020

- Independently researched and used rapid prototyping to create brace templates
- Desired goal is a 3D printable brace that redistributes loads when limbs are in full flexure or extension

PROFESSIONAL/INTERNSHIP EXPERIENCE

Lockheed Martin, Department of Thermal Dynamics, King of Prussia, PA April 2016 – June 2016

- Shadowed various aerospace engineers and an acoustics engineer
- Created computer tools for finding parts for a specific tensile strength

Brainy Bees Learning Center, King of Prussia, PA
Mathematics & Science Teacher Summer 2017, 2018, 2019, 2020

- Taught SAT/ACT math and science to high school students
- Prepared lessons and provided one-on-one tutoring to build strong deductive and analytical minds

SKILLS & STRENGTHS

Computer: MATLAB, CAD (NX 12.0, Solidworks), Microsoft Office (Word®, PowerPoint®, Excel®), C++, AMPL
Technical: CNC Machining (Haas Mini Mill 2), Basics of Welding, Shop trained, 3D Printing experience
Interpersonal: Public Speaking, Team Leadership, Communication, Positivity, Openness to Feedback
Language: English, Korean, and Intermediate Spanish