Donggeon Kim

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EDUCATION

Bachelor of Science in Chemical Engineering   College Park, MD
A. James Clark School of Engineering, University of Maryland   Expected May 2026
       GPA: 3.537

WORK EXPERIENCE

Undergraduate Researcher, **Zierden Lab**   Mar 2024 – Present
College Park, MD

- Develop a protocol to load 40% more small drug molecules into extracellular vesicles compared to traditional loading methods
- Optimize the production of extracellular vesicle growth by 30% using machine learning algorithms
- Collaborate across disciplines to ensure timely progress on multiple ongoing projects
- Investigate therapeutic strategies against bacterial vaginosis and reproductive health disorders

Shift Leader, **Donut King**   Dec 2024 – Present
Kensington, MD

- Supervise front-end operations and coordinate team efforts to serve at least 100 customers daily
- Maintain strong customer relationships through effective communication and service
- Took initiative to identify workflow improvements that enhanced overall customer experience

Shift Leader, **Japong Bakery**   Jul 2023 – Jan 2025
Rockville, MD

- Directed team operations to serve high volumes of customers in face-paced environment
- Adapted to new product offerings and trained coworkers on preparation methods
- Enhanced service speed and quality through clear communication and teamwork

PROJECTS

Project Member, **CHBE302**, *Chemical and Biomolecular Engineering Thermodynamics II*   Jan 2024 – May 2024
College Park, MD

- Designed a cracking process in ASPEN to evaluate process efficiency and scalability
- Built MathCAD models to calculate process variables and outputs, improving project accuracy
- Applied advanced thermodynamics principles, earning an overall project grade of an A

Project Co-Manager, **ENES100**, *Introduction to Engineering Design*   Jan 2023 – May 2023
College Park, MD

- Demonstrated technical and leadership skills in final presentation of project
- Directed system integration and testing through obstacle courses with mission-specific objectives
- Co-led a 6-member team to design, code, and construct an autonomous vehicle in C++ and Fusion 360

ACTIVITIES AND AFFILIATIONS

General Body Member, **Maryland Sustainability Engineering**   Jan 2023 – May 2024
College Park, MD

- Performed budget analysis to plan costs for an implementation trip for the project team
- Estimated power generation and consumption of electrical systems to assess feasibility solar energy use
- Partnered with Engineers Without Borders to design solar panel systems for energy access Kédougou, Senegal

HONORS

- University Honors Program Scholar   Fall 2022 – Present
- Dean's List   Fall 2022 – Present

SKILLS

Software: MATLAB, C++, Aspen, Excel, MathCAD, Minitab, Python, Office 360