

TAEHEE LEE

Biomedical engineer/molecular biologist with experience in medical device industry and academic translational research seeking challenges requiring innovative solutions.



EDUCATION

2022

Cornell University

M.Eng. in Biomedical Engineering

GPA: 4.06

📍 Ithaca, NY

Related coursework: Project Management, Tissue Engineering, Stem Cell Bioengineering, Bioprocess Engineering, Computer-Aided Engineering, Data Science in R, Biofluid Mechanics, Entrepreneurship

2017

University of Pennsylvania

Certificate in Pre-Health

GPA: 3.79

📍 Philadelphia, PA

2013

Northwestern University

B.S. in Biomedical Engineering

GPA: 3.07

📍 Evanston, IL



RELATED EXPERIENCE

2022

2021

Meinig School of Biomedical Engineering, Cornell University

Design Engineer

📍 Ithaca, NY

Liquid ventilation system for management of Acute Respiratory Distress Syndrome

- Led engineering team in designing and delivering transportable functional prototype
- Created CAD of components and full assembly for modeling physical integration
- Integrated mechanical, electronic, and sensor components into a functioning system under time pressure
- Second place in BME design competition
- Third place in Autodesk Fusion 360 CAD competition

2021

2017

Children's Hospital of Philadelphia

Research Technician

📍 Philadelphia, PA

A zebrafish model of Friedreich ataxia for drug screening - lead investigator

- Developed and validated CRISPR-Cas9 modified zebrafish through verification of mutant genotypes, evaluation of disease-associated phenotypes and face validity

Screening of random shRNA-expressing library in a cellular model of MELAS - lead investigator

- Identified reproducible conditions for in vitro screening, screened shRNA library and cloned candidates, investigated potentially affected pathways in MELAS

2016

2013

Medtronic Diabetes

R&D Engineer

📍 Northridge, CA

- Collaborated in cross-functional engineering groups to ensure developing product designs met product requirements, regulatory guidelines, and international standards
- Defined design requirements, specifications, and test methodologies for product in development
- Guided team members on verification, validation, and qualification activities for product development
- Managed expectations of project supervisors while keeping team aligned with milestone goals



CONTACT

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PROFESSIONAL SKILLS

Project management, verbal and written interpersonal communication, integrity, independence, primary and secondary research, strong work ethic, attention to detail

TECHNICAL SKILLS

Engineering analysis, medical device design, molecular biology techniques, statistical analysis (Excel, Minitab, R), CAD (Fusion 360, Solidworks), COMSOL, R, MS Project, MATLAB

PUBLICATIONS

10.1021/acscemneuro.0c00323

10.1124/jpet.118.252759