

# 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

📍 Ithaca, NY

GPA: 4.06

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

📍 Philadelphia, PA

2013

### Northwestern University

B.S. in Biomedical Engineering

📍 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, placing 2nd in BME Design Competition
- Created CAD of components and full assembly for modeling physical integration, placing 3rd in BME Autodesk Fusion 360 competition
- Guided team's design efforts and verification experiments with focus on defined need criteria
- Integrated various designed/selected mechanical, electronic, and sensor components into a functioning system over 4-month period

2021

2017

### Children's Hospital of Philadelphia

Research Technician

📍 Philadelphia, PA

**Lead investigator:** *A zebrafish model of Friedreich ataxia for drug screening*

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

**Lead investigator:** *Screening of random shRNA-expressing library in a cellular model of MELAS*

- 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 to be in line with all patient needs
- Guided team members on verification, validation, and qualification activities for product development as a technical project management lead
- Managed expectations of project supervisors while keeping team aligned with milestone goals
- Brought validation protocols and documentation practices into compliance through extensive communication with FDA representatives as part of CAPA activities over 6-month period



## 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, implementation, team coordination, diligence, persistent curiosity, broad knowledge base

## 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