

Tae-Hyung Kang

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Objective

Seeking a summer internship in order to apply my current experience and education and to increase my knowledge and understanding of Electrical Engineering.

Education

University of Michigan, Ann Arbor, MI May 2015
B.S.E., Electrical Engineering | Minor in Mathematics
G.P.A.: 3.826 | 4.00

Experience

ePack, Inc. May 2014 – Present
Engineering Intern

- Performance testing and analysis of MEMS gyroscopes assembled on Environment Resistant Platform (ERP)
- Designed and Implemented Thermal testing of MEMS gyroscopes inside a vacuum chamber
- Miniaturizing the oven control system of the ERP with a microcontroller

Student Space Systems Fabrication Lab (S3FL) January 2014 – Present
Miniature Tether Electrodynamics Experiment (MiTEE) – Orbits and Attitude Control System

- Performed Attitude Control System Trade Study
- Implementing the B-dot control system for stabilization before Tether Deployment

Lurie Nanofabrication Facility – University of Michigan September 2013 – May 2014
Undergraduate Research Assistant

- Characterization of Chemical-Mechanical Polisher Lapping curvature on Silicon Wafer
- CMP-Lapper Integrated Thinning Procedure of Si, SOI substrates
- Developed training videos of CMP-Lapper Integrated Thinning Procedure
 - Mounting Substrates, CMP Carrier Change, Lapper

Wang Chu Chein-Wen Research Fund – University of Michigan May 2013 – August 2013

- Achieved quicker response time for Osmotic Actuated Devices
- Characterization of Hydrofluoric glass etching and PDMS Spin Coating
- Fabrication of Microfluidic Devices for Cancer-Cell Capture Research

Skills

- **Fluent:** Korean, English
- **Proficient:** Microsoft Office, MatLab, Cadence
- **Basic:** C++, Quartus, Altium Designer, L-Edit, Wolfram Mathematica, LaTeX

Extracurricular

Tau Beta Pi – Michigan Gamma Chapter December 2012 – Present

- 2014 SWE-TBP Career Fair Publicity Chair
- 2014 Winter Operations Officer

Center for Engineering Diversity and Outreach September 2013 – April 2014
Peer Mentor

- Engaging in exam preparation and guiding a freshman through their first year in college

M-STEM Academy – University of Michigan, Ann Arbor, MI July 2011
Michigan – Science, Technology, Engineering, and Math Academy

- Participated in 6-week intensive coursework to prepare for college