

Frederick N. Meyers

Mechanical Engineering, Manufacturing Automation, Materials Science

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PROFESSIONAL PREPARATION:

University of California, Davis, Mechanical & Aerospace Engineering, M.S. (2014)

University of California, Davis, Mechanical Engineering, B.S. (2012)

APPOINTMENTS:

Dec. 2016 – Oct. 2017: Presales Engineering Team Leader, DMG Mori, Davis, CA

Dec. 2014 – Dec. 2016: Automation Mechanical Engineer, DMG Mori, Davis, CA

Sep. 2013 – Sep. 2014: Research Assistant, Civil and Environmental Engineering Dept., UC Davis

Sep. 2012 – June 2014: Teaching Assistant, Mechanical and Aerospace Engineering Dept., UC Davis

Apr. 2011 – Sep 2014: Graduate Student Researcher, Nano Engineering and Smart Structures Technologies Lab, UC Davis

Jan. 2009 – 2010: Undergraduate Researcher, Chemistry Dept., Napa Valley College

Apr. 2006 – 2007: Acoustical Technician, J.C. Brennan & Assoc., Auburn, CA

AWARDS:

2015 Employee Excellence Award; DMG Mori

2013 Malcolm Stacey Fellowship; UC Davis

2013 Ted and Sylvia Hillyer Fellowship; UC Davis

2012 Third Place, Best Student Paper Award; SPIE Smart Structures/NDE

2012 Best research project and best poster; Engineering Senior Design Showcase, UC Davis

2010 MENSA foundation scholarship; UC Davis

RELEVANT SKILLS:

Mechanical Engineering

Mechanism Design

CNC Machine Design

Lean Manufacturing

Motion Control/Mechatronics

Robotic End Effectors/Tooling

Material Handling

Fixture Design

FEA

Manufacturing Automation

MRP Integration

Machine Tending Automation

Factory Communication Systems

Robot Programming

PLC Programming

OSHA/ANSI Compliant Designs

Materials Science

Fatigue Analysis

Structural Health Monitoring

Wet Etching

Sputtering/Deposition

Thin Films

CONFERENCES:

2013 Engineering Mechanics Institute; Presentation (Northwestern)

2012 Engineering Senior Design Showcase; Poster (UC Davis)

2012 Undergraduate Research Conference; Presentation (UC Davis)

2012 SPIE Smart Structures/NDE; Paper

PUBLICATIONS:

Ryu, Donghyeon, **Frederick N. Meyers**, and Kenneth J. Loh. "Inkjet-printed, flexible, and photoactive thin film strain sensors." *Journal of Intelligent Material Systems and Structures* (2014)

F. N. Meyers, K. J. Loh, J. S. Dodds, & A. Baltazar, 2013. "Active sensing and damage detection using piezoelectric zinc oxide-based nanocomposites." *Nanotechnology*, 24(18), 185501.

J. S. Dodds, **F. N. Meyers**, and K. J. Loh, 2012, "Piezoelectric Nanocomposite Sensors Assembled using Zinc Oxide Nanoparticles and Poly(vinylidene fluoride)," *Smart Structures and Systems* (1738-1584), Techno-Press

J. S. Dodds, **F. N. Meyers**, and K. J. Loh, 2012, "Piezoelectric Characterization of PVDF-TrFE Thin Films Enhanced with ZnO Nanoparticles," *IEEE Sensors* (1530-437X), IEEE, 12(6): 1889-1890.

J. S. Dodds, **F. N. Meyers**, and K. J. Loh, 2012, "Enhancing the piezoelectric performance of PVDF-TrFE thin films using zinc oxide nanoparticles," *Proceedings of SPIE – 19th Annual Symposium on Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring*, San Diego, CA, March 11-15, 2012.

SYNERGISTIC ACTIVITIES:

Leadership: Team leader at DMG Mori. Supervised people across multiple departments to manage multi-million dollar projects from beginning to end.

Team building and mentorship: Volunteered with the Society of Women Engineers to help coordinate events that reached out to increase economic, gender, and ethnic diversity in engineering.