

HONGYUN SO

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Assistant Professor
Department of Mechanical Engineering
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<https://microsystemhy.wixsite.com/mind>

Research Interests Microsystems and Microelectronics, Heat Transfer, Microfluidics
Mechanical Issues in Microsystems including Heat Transfer & Fluid Mechanics
Microfabrication of Sensors, MEMS, Functional Surfaces

Education **University of California, Berkeley, USA** Dec 2014
Ph.D. in Mechanical Engineering

KAIST, Daejeon, Korea Feb 2011
M.S. in Mechanical Engineering

Hanyang University, Seoul, Korea Feb 2009
B.S. in Mechanical Engineering

Appointments **Assistant Professor** Sep 2017–
Department of Mechanical Engineering, Hanyang University

Postdoctoral Scholar Mar 2015–
Department of Aeronautics & Astronautics, Stanford University Aug 2017

Teaching Thermodynamics I & II
Advanced Thermodynamics
Thermal Power Plant Engineering
Electrical Engineering, Electronic Engineering
Career Development I & II, Capstone Design I & II

Technical Skills **Microfabrication**
(Thin film deposition): MOCVD, PECVD, LPCVD, ALD
(Metal deposition): sputtering, E-beam evaporation, electroplating
(Lithography): standard lithography, ASML stepper, E-beam lithography
(Dry etching): DRIE, ICP, plasma, XeF₂
(Wet etching): KOH, HF, TMAH
(Others): RTA, CPD, CMP, wire bonding, dicing