

KEVIN SIMON

KevinPSimon@gmail.com | (408) 355-3632

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY – Cambridge, MA - GPA: 4.8/5

S.M. Engineering Systems Division; Tata Fellow

May 2015

Ph.D. Mechanical Engineering; MechE Martin Fellow, Jackson W. Goss Fellow, and Tata Fellow

Feb 2019

FRANKLIN W. OLIN COLLEGE OF ENGINEERING – Needham, MA - GPA: 3.5

B.S. Mechanical Engineering

May 2012

First exchange student ever at Khalifa University

Spring 2011

WORK EXPERIENCE

WATTS WATER TECHNOLOGIES (*Research Engineer*) – North Andover, MA

Dec 2018 – Present

∂ Building research strategy and/or technology core for 3 transformational technology initiatives in flow control, heating, and water quality

∂ Supported and accelerated 6 internal projects with simulation, rapid prototyping, and customer-centric ideation

∂ Developed next generation sensor strategy and supplier partnerships for IoT platforms across 2 business units

∂ Facilitating 4 technology transfers with external startups

KHETHWORKS (*Co-founder and advisor*) – Cambridge, MA + Pune, India

May 2015 – Present

∂ Startup delivering portable, affordable solar irrigation pumps for marginal farmers in east India

∂ Co-created company mission, goals, and technology through field visits and pilots with NGOs and rural farmers

∂ Participated in Global Founder's Skills Accelerator (now Delta-V)

OTHERLAB (*Intern*) – San Francisco, CA

August 2012 – August 2013

∂ Performed analysis and co-wrote report on compressed natural gas intestines to earn 'Phase 2' funding of over \$1M from the Advanced Projects Research Agency-Energy. Project sold to Linamar as FlexForm.

∂ Supported research on inflatable robots, pumps, and low-cost pneumatic solar trackers (now Sunfolding)

HONORS AND AWARDS

2017 SME "30 under 30"

2018 1st place MIT de Florez Competition; MIT MechE Carl G. Sontheimer Prize

2019 Empowering Pumps: Industry Person of the Week

SELECTED PUBLICATIONS AND PATENTS

1. K. Simon, "Design Tools and Mechanisms for Progressive Cavity Pumps", MIT Ph.D. Thesis, 2019.
2. K. Simon, L. Porz, T. Swamy, Y. Chiang, A. Slocum. "Low-profile Self-sealing Sample Transfer Flexure Box", Rev. Sci. Instrum. 88, 083705. 2017.
3. K. Simon, M. Haji, "Building a Safety-Based Culture for a Student-Run Makerspace", International Symposium of Academic Makerspaces, 2016.
4. K. Simon, R. Shanbhag, A.H, Slocum. "Reducing Evaporative Water Losses from Irrigation Ponds Through the Reuse of Polyethylene Terephthalate Bottles", ASCE Journal of Irrigation and Drainage Engineering, 2015.
5. K. Simon, "Applications of Design for Value to Distributed Solar Generation in Indian Food Processing and Irrigation", MIT S.M. Thesis, 2015.
6. S. Griffith, T. Gilman, P. Lynn, K. Simon. Natural Gas Intestine Packed Storage Tank. US Patent 20140305951 A1. Filed Feb. 2014, granted Oct. 2014.
7. S. Griffith, L. Madrone, P. Lynn, K. Simon, J. McBride. Fluidic Solar Actuator. US Patent 9,624,911 B1. Filed Oct. 2013, granted Apr. 2017.

ACTIVITIES AND OUTREACH

∂ **MIT MAKERWORKSHOP**: Supported over \$260,000 in fundraising through grants and teaching professional development courses; Helped establish shop and governance; Former staff member and safety officer