Spencer Wilson

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EDUCATION

Class of 2015 — Massachusetts Institute of Technology
B.S. Candidate, Department of Mechanical Engineering
Minor in Comparative Media Studies
GPA: 5.0/5.0

EXPERIENCE

2015-Current — Environmental Dynamics Laboratory, *MIT*
Experimental imaging using PIV for internal wave phenomena, specifically surrounding topology with undersea cliffs.

January 2015 — Global Research Innovation Technology *Indore, India*
Identified manufacturing issues with the Leveraged Freedom Wheelchair on an MIT Public Service Center Fellowship. Redesigned the chair for flat packing.

2013-2014 — Center for Bits and Atoms, *MIT Media Lab*
Co-invented of "Ganged Resin Transfer Molding for Filament Wound Parts", co-holding a provisional patent on the process. Designed, prototyped, iterated this novel manufacturing process for composite lattices.

Summer 2013 — Otherlab *San Francisco, CA*
Intern, prototyped a small-scale bespoke bicycle manufacturing scheme. Contributed to day-to-day operations.

Summer 2012 — WiTricity *Watertown, MA*
Intern, fabricated a CNC 3-axis machine for testing resonant induction devices.

2011-2012 — Laboratory for Manufacturing and Productivity, *MIT*
UROP, fabricating and designing microfluidic machines.

PROJECTS

2007 - Current — Automotive Restoration
Completely restored a 1967 Volkswagen Microbus.

2012 - Current — Documentary
Produced photography from travel in India, ongoing project for web series.
Independently created a documentary about the MIT Facilities night shift.

HONORS

Academic — 2015 Marshall Scholarship
One of 34 Scholars in the United States. Chosen to study at the University of Cambridge.

Humanities — 2014 Burchard Scholarship
One of 32 students chosen for excellence in the humanities to attend biweekly dinners.

Engineering — Pi Tau Sigma
Honor Society in the Department of Mechanical Engineering.

Leadership — Mechanical Engineering Student Advisory Committee
Chosen for a panel working with MIT faculty to improve curriculum and student life.

SKILLS

Fabrication — 3D printing, waterjet, lasercutting, milling, turning, carpentry, fiber composite layup, MIG and TIG welding

Software — SolidWorks, MasterCAM, PartWorks, MATLAB, Rhinoceros, Final Cut Pro X, LaTeX, Python, HTML, CSS

INTERESTS

Long-distance running, long distance cycle touring, indoor and outdoor rope climbing and bouldering, writing poetry, short stories and screenplays.