

# JONATHAN B. MILLER

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## EDUCATION

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**Massachusetts Institute of Technology** Cambridge, MA  
*School of Engineering & Sloan School of Management* 2016 – 2018 (expected)  
M.S., Engineering System Division's Integrated Design and Management  
Fellowships: MIT Sandbox Innovation Fund, Shadow Magicians Wellness, William Asbjornsen Albert Memorial;  
Collaborations: Flextronics (Angel Eye), MercadoLibre (No Questions Asked Returns), MIT Mechatronics Lab  
(PipeGuard); Honors: MIT 100K Finalist (Winner, Data Analytics), Lemelson-MIT Prize nominee, MIT Water  
Innovation Prize Winner

**Saint Francis University** Loretto, PA  
*Graduate School of Business* 2008 – 2010  
M.B.A., Management Information Systems

**Saint Francis University** Loretto, PA  
*School of Science* 2004 – 2008  
B.S. Honors, Mathematics with Computer Science  
B.A. Honors, Chemistry

## EXPERIENCE

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**Dimples, Inc.** Ebensburg, PA  
*CEO, Co-Founder* 2011 – present  
Founded company to provide ink-saving fonts and software for printing documents. As business and technical lead,  
devise algorithms to generate ink-efficient fonts. I architected and implemented multiple distributed computing systems,  
including a massively parallelized (650+ cores) processing system managing billions of data points across millions of  
files. Awarded U.S. patent 8,467,082. Assembled team of 6. Manage international clients and contractors.  
MassChallenge 2014 winner.

**Mad Dog Environmental Solutions, LLC** Ebensburg, PA  
*CEO, Co-Founder* 2013 – 2014  
Assembled team of 5 to develop DryAll product line from ideation to marketable product. Validated idea, technical  
feasibility, and market viability for shale gas drilling waste containment. Translated experimental data to manufacturing  
needs, including material sourcing, processing, and facility. Authored two patents pending.

**Saint Francis and Penn State Universities** Loretto/Altoona, PA  
*Lecturer of Mathematics, Computer Science, and Business* 2011– present  
Develop and teach curriculum for 17 courses in statistics, computer science, mathematics, and business.

**PopArchitecture** Ashville, PA  
*CEO, Co-Founder* 2010 – 2013  
Founded company to provide digital and paper architectural modeling. Domestic and international clients. Produced 100s  
of models. Developed Google Earth-to-paper modeling service. Google Geo 3D Certified Developer.

**Center of Excellence for Remote and Medically Under-Served Areas** Loretto, PA  
*Researcher* 2004 – 2009  
Responsible for developing defense/medical applications of commercial technologies for U.S. Army and Navy.

- Built robotic emergency mobile mesh networking system
- Improved emergency first response simulation system with Monmouth University team

## ADDITIONAL

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- Awarded patent US8467082 for “Print Compound Conserving Font Production Method”. Patents pending:  
“Methods for Efficient Use of Consumables in Analogue Materials and Digital Devices”, “Liquid Solidification  
Compound”, and “Liquid Immobilization Using Additive Solidification Framework Process”
- Comfortable with full stack development: Python, JavaScript, EC2, Git, JSON, Mercurial, OTF, Robofab, S3, SQL,  
SQS, TTF, TTX, UFO, XML, etc.
- Service: Innovators For Purpose, Design for America, MIT SOLVE, Head of the Charles Regatta, TEDxCMU,  
TEDxPSU, Steel City Codefest, and other community events. MIT Rowing Club Co-Treasurer
- Hand drummer for World Drumming Ensemble, performing benefit concerts under Jim Donovan of Rusted Root
- Teach summer youth workshops, e.g. Robotics, Survival, Architecture