

ANDREW W. LYNCH
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EDUCATION

New York University, SoE, Brooklyn, NY **Jan. 2015**
M.S. Mechanical Engineering, GPA: 3.5/4.0

- NYU Prototyping Fund Award - The NYU Greenhouse and Entrepreneurial Institute (2014)
- Graduate Innovation Award - The NYU-Poly Graduate Enrollment Management Office (2013)

Middlebury College, Middlebury, VT **May 2003**
B.A. Mathematics and Studio Art (Joint Major), GPA: 3.2/4.0

- Highest Honors - Middlebury College Studio Art Department (2003)
- Distinction in the Visual Arts Award - Middlebury College Friends of the Art Museum (2003)

TECHNICAL SKILLS

Matlab & Simulink	Java, Arduino (C), & Basic	Mill & Lathe (DRO)	Microsoft Office Suite
CAD, FEM, & CFD	SolidWorks & Sim Pkg	TIG/MIG/Arc Welding	Adobe Creative Suite

ACADEMIC PROJECTS

MRI-Compatible Spirometer, NYU SoE **Jun. 2014 - Dec. 2014**
Master's Thesis, Dr. V. Flamini (NYU SoE) & Dr. L. Axel (NYU SoM)

- Prototyped mechatronic device to interface pneumotach transducer with MRI
- Used digital control system theory, Matlab, C, SolidWorks, and data visualization
- Device allows for unprecedented quality in pulmonary imaging

Portable CNC Plasma Cutter, NYU SoE **Sep. 2014 - Dec. 2014**
Mechatronics group project

- Greatly simplified the design of current 2.5 axis CNC machines
- Fabricated working portable unit with Arduino, machine shop, and AutoCad
- Device maintains high precision at a 75% cost reduction

Effects of Shin Guards on Preventing Tibial Fracture, NYU SoE **May 2014**
Solid Mechanics group project

- Created dynamic model of tibia to test the performance various shin guards
- Validated results with published research experiments and SolidWorks Simulation
- Model provides fast, simple, accurate system to virtually test new equipment

EXPERIENCE

ArtWelderAndy, Brooklyn, NY **Jul. 2006 - Present**
Founder and CEO

- Engineered and built over 50 client-commissioned projects and kept a blog of the process
- Used CAD, a private machine shop, and practiced sustainable design
- Worked independently as well as supervising small crews to hundreds of volunteers

Durable Machinery Company, Brooklyn, NY **Jan. 2013 - Nov. 2013**
New Product Engineer

- Invented and built a centripetal separation air cleaning system (patent pending)
- Used computational fluid dynamics, TIG welding equipment, and precise test instruments
- Device moves 600 CFM of air while ejecting 90% of particulate larger than 5 microns