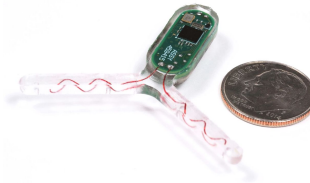


Graham Arrick

Please contact for
address and phone



Profile

Mechanical design engineer with over eight years of professional experience. Passionate team-player with a track record of delivering solutions to challenging engineering problems. Seeking to work for an organization that designs sustainable products to help combat climate change.

Education

Boston University, Class of 2015

BS Mechanical Engineering – GPA 3.46 out of 4.0

Sample Coursework: DFM, Software Engineering, Controls, Instrumentation Theory, Electromechanical Systems, Product Design

Massachusetts Institute of Technology, Class of 2020

MS Mechanical Engineering – GPA 4.8 out of 5.0

Sample Coursework: Mechatronics, Power Electronics, Computer Vision, Design for the Developing World, Quality Control

Recent Experience

Alloy Product Development, Cambridge, MA

Mechanical Engineer III, Jun 2021 - Present

- Work directly with clients to develop consumer products
- Design parts for mass production (Molding, Casting, Stamping, etc.)
- Collaborate with multidisciplinary teams including EE, ID and Manuf.
- Execute all aspects of design process including, conceptualization, prototyping, testing, CAD, DFM, GD&T and manufacturing support
- Lead small teams through scheduling, task definition and mentorship
- Evaluate new software for improvement of company-wide efficiency
- Received promotion after 1.5 years of employment at Level II

Independent Consultant (Multiple Clients), Oakland CA

Sep 2020 - May 2021

- Analyzed experimental data from a medical device study (continuation of graduate research)
- Designed automation machinery
- Provided field service and test support for client's device

Traverso Group at MIT, Cambridge, MA

Research Project Leader, Sep 2018 - Sep 2020

- Designed and implemented an ingestible jet injection system
- Executed dozens of ex vivo and in vivo studies with pigs
- Led research efforts with a team of international collaborators
- Managed a multidisciplinary team of engineers and technicians
- Authored a paper on our novel device prototypes

CS Draper Laboratory, Cambridge, MA

Mechanical Engineer I, May 2015 - Jun 2018

- Designed and built numerous mechanical and electromechanical prototypes including human systems, medical devices and UAVs
- Invented and patented multiple novel mechanisms
- Mentored younger employees through the engineering design process
- Received promotion after year-long internship

Full Timeline

Academic

Sep 2011

Enrolled at BU as undergrad

Feb - Jul 2013

Study Abroad at Technical University of Dresden

May 2015

Graduated from BU
B.S. MechE

Sep 2018

Enrolled at MIT as grad student

May 2020

Graduated from MIT
M.S. MechE

Professional

Jan - Feb 2013

Intern
M. Lewis Architects

Feb - May 2014

Lab Assistant
BU Machine Shop

May 2014 - May 2015

Intern
Draper

May 2015 - Jun 2018

Mechanical Engineer I
Draper

Sep 2018 - Sep 2020

Research Lead
Traverso Group (MIT)

Sep 2020- May 2021

Ind. Consultant
Self-employed

Jun 2021- Feb 2023

Mechanical Engineer II
Alloy PD

Feb 2023- Now

Mechanical Engineer III
Alloy PD

Skills

CAD (SolidWorks, Creo, GD&T)
Prototyping & 3D Printing
Mentorship

Computer Programming (Python, Matlab, C++)
Team Management
Machining (Lathe, Mill, Manual and CNC)

Electronics & Control (Arduino, Rasp. Pi)
Design For Manuf. (Mold, Cast, Sheet Mtl.)
Analysis (ANSYS, COMSOL, Enventive)

Patents & Publications

[3D printed gastric resident electronics](#)
[Hybrid adhesion system and method](#)

[Hard point system for attaching fixture to a target surface](#)
[Surface affixable device incorporating dry adhesive](#)

Honors & Awards

Cum Laude Graduate - BU College of Engineering
Wunsch Foundation Award for Best [Thesis](#) - MIT MechE