

Adrian Tanner

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EXPERIENCE

Multiply Labs - San Francisco, CA

February 2022 - Present

Senior Robotics Engineer, Engineering Manager

- Managing 4 hardware and software engineers. Scheduling, prioritization, communication between teams, etc.
- Industrial design of bus-sized cell therapy and small molecule production automation systems
- Prototype, DFM, manufacturing of novel cartridges, docking stations, consumables, robotically actuated sterile fluid interfaces, EOAT, and modular internal structures. System architecture, electronics, air filtration, and safety. Implemented significant process improvements vs. pilot versions of both systems.
- Automation equipment, methods, and materials in GMP environments, sterilization and assembly workflows
- External interface to multiple vendors, instrument manufacturers, and consortium partners

10x Genomics - Pleasanton, CA (acquired ReadCoor Oct. 2020)

August 2018 - February 2022

Senior Mechanical Engineer

- Mechanical design of novel subsystems and processes for *in-situ* sequencing instrument and surrounding sample preparation ecosystem. System requirements and verification design/testing
- Sample interfacing, optics, mid-quantity plastic injection molded parts design, material selection and testing. Manufacturing fixtures, supplier interfacing, DFM/DFA, production drawings and work instructions

Massachusetts Institute of Technology - Edgerton Center

Summer 2011 - Present

Project Advisor and Peer Mentor, 'The Saturday Thing,' 'Engineering Design Workshop,' 'Adventures'

- Advise middle and high school students in relaxed experiential learning environment throughout the year
- Traveled to Alaska, Barcelona, and Boston area schools to instruct students in several underwater ROV design workshops as well as engineering coursework in conjunction with MIT GTL

Formlabs - Somerville, MA

June 2015 - July 2018

Mechanical Engineer, Optical Systems Engineer, Manufacturing Engineer

- Optical system design and evaluation for next-generation SLA 3D printing apparatus. Design of novel assembly for laser beam filtering and calibration. Supplier interfacing, material selection and DFM/DFA for precision optical components, production drawings
- Pushed custom precision galvanometer design from development stages through mass-production
- Manufacturing line design and yield-increasing optimizations
- Injection molded enclosure design and assembly, materials selection for chemical resistance and durability

Boston University, B.S. Mechanical Engineering

May 2015

- Concentration in Technology Innovation

SKILLS and INTERESTS

Fabrication - Mill, lathe, laser cutter, FDM/SLA/SLS 3D printers, waterjet, composite layup, silicone molding, hand and power tools. Prosthetics development, high quality replica/prop fabrication,

Software/Electronics - Onshape, Solidworks, HSMWorks, basic PCB layout, soldering, microcontrollers, actuators and sensors, industrial electronics cabinets and PLCs

AWARDS and PRESENTATIONS

General Assembly Boston: 'Inside the Minds of Brilliant Designers,' FUSE 2017: 'Beyond the Build Volume,' Kenneth R. Lutchen Distinguished Fellow (Summer 2013), Undergraduate Research Opportunities Program (Fall 2012 – Spring 2014), Ebner Design Portfolio Contest Winner (2012, 2014), Singh Imagineering Competition Winner (Spring 2014)