Jared Scott

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Leading innovation at the nexus of digital and physical worlds

Education

Massachusetts Institute of Technology — Cambridge, MA
Bachelor of Science in Engineering as directed by the Mechanical Engineering department — Class of 2023
Concentration in Learning Machines and Physical Systems, Minor in Computer Science, GPA of 4.1

Skills

Design and Manufacturing: Computer-aided Design, Mill Operation (including CNC), Lathe Operation, 3D Printing via Fused Deposition Modeling, Power Tools, Dynamic Systems & Controls, Soldering/Electronics, some Circuit Design
Software and Computing: C++, Python, Julia, MATLAB, HTML, Javascript, Arduino, C, C#, Max, RISC-V, Verilog, Artificial Intelligence, Machine Learning, Computer Vision, Voice Recognition Systems, Multithreading, Quantum Computing, Microsoft Office, Web Development, SQL, Unity, XR Development, Unix, Git, Shell/bash, Algorithm Design
Additional interests: Spanish as a Second Language, UX. Design, Audio Engineering, Tennis, Writing/Rhetoric, Music Analysis, Music Composition/Production and Performance (Piano, Violin, Electronic)

Experience

Gordon-MIT Engineering Leadership Program
Engineering Leadership Laboratory Teaching Assistant — September 2023—Present
- Aiding instructional staff to prepare/administer a technical leader development program for MIT/Wellesley College
- Crafted computer-vision-based software to mine and parse data correlating academic and professional trajectories

Gordon Engineering Leader — September 2022—May 2023
- Participated in selective leader development program on being an effective member/leader of engineering teams
- Practiced leadership, teamwork, and communication skills in a context complementing technical coursework

Reality Hack, Inc.
Hardware Hack Mentor/Organizer — January 2023—Present
- Organizing/facilitating an annual VR/AR hackathon, training on digital fabrication and building custom VR hardware

Web/Software Developer — January 2024
- Implemented an algorithm for organizing a database of over 500 hackers into parametrically optimal teams

MIT Department of Mechanical Engineering
Teaching Assistant, Designing Virtual Worlds — June 2023—Present
- Engaged in the design and implementation of class on combining novel hardware and extended reality technologies (e.g. VR, AR), for undergraduate and graduate students from MIT, Harvard, UMass Art, and Berklee School of Music

Medical Device Design Student — February 2023—May 2023
- Designed, developed, and programmed a machine and computer vision algorithm for automatic cancer cell colony imaging and analysis; coauthored a research paper for IEEE and presented the device to academics and sponsors

Introduction to Robotics Student — February 2023—May 2023
- Led a team of graduate students to design and create an AR teleoperation system to administer CPR using a Microsoft HoloLens, a UR5 robot arm, and a custom unmanned vehicle, as part of a team-based robotics competition

Bio-inspired Robotics Student — September 2022—December 2022
- Designed, fabricated, programmed, and analyzed a robot to model an array of karate-style kicking motions; presented robot and analyses to MIT students, faculty members, and affiliates

MIT Division of Student Life
Summer Desk Worker, Housing and Residential Services — May 2023—August 2023
- Developed and deployed a suite of Google apps to digitize/automate resident management in three MIT residence halls, monitored/facilitated building operations and maintenance at Burton-Conner House

MIT Media Lab
Undergraduate Researcher, Nano-Cybernetic Biotrek Group — May 2022—September 2022
- Engineered and tested computer vision tools using ImageJ, Python, and MATLAB in order to analyze nanoelectronic devices and neural cells from multidimensional microscope images as part of an ongoing research project to understand and improve the use of nanodevices for brain modulation

Massachusetts General Hospital Department of Radiation Oncology
Undergraduate Researcher — June 2021—September 2021
- Constructed a digital model of a small animal radiation therapy device and tested irradiation techniques using Monte Carlo simulations in order to assist a laboratory group with cancer treatment planning research

Massachusetts Institute of Technology Kavli Institute for Astrophysics and Space Research
Undergraduate Researcher — June 2020—February 2021
- Programmed data storage and visualization tools for a charge-coupled device simulator, in order to assist a laboratory group with the development of such devices for future NASA X-ray astrophysics missions