Mikhail Hyde

Brighton, MA | **Email:** hyde.mikhail@gmail.com | **Phone:** +1 (401) 644-9883 | www.mikhailhyde.com

EXPERIENCE

Formlabs, *Somerville, MA*   April 2022 - Present
Systems Integration Engineer
- Brought together firmware and hardware to enable subsystems in the printing pipeline
- Delivered fully-functional 3D printer and subsystem prototypes.
- Debugged system level issues and collaborated with the other engineering teams to implement design fixes.
- Designed, wrote, validated, and shipped C++ and Python based printer software features.
- Conducted extensive testing through planning and execution to inform design changes, design requirements, and product offerings.
- Built internal tooling in the form of C++ and Python software to provide unit insight, enable streamlined experimentation, and support the work of other engineers

SharkNinja, Needham, MA   June 2021 – March 2022
Senior Systems Validation Engineer
- Lead the design and implementation of automated test fixtures for rapid and repeatable testing of Ninja products using Linux, Python, C++, Raspberry Pi, and microcontrollers
- Developed a serial-based Ninja Testing API, in Python, that enabled test engineers to control their respective products with abstracted commands.
- Developed the NinjaDAQ, a PCBA solution to incorporate commonly used sensors and hardware in a single package so that most tests could be run with a repeatable setup.
- Supported automated testing with hardware peripherals such as automated water delivery and mechatronic manipulators
- Collaborated with CS and Data Engineers to upload large data sets into Cloud Servers and Business Visualization services such as Snowflake and DOMO.
- Fixtures had a high ROI by reducing the cost of common test procedures by up to 85% per ECN

Emissive Energy Corp, North Kingstown, RI   June 2018 - June 2021
Mechanical Engineer
- Designed production ready PCBs and generated schematics for all in-house electronics using Altium Designer
- Developed a system/fixture for calibrating PIC built-in temperature sensors using UART communication between the PICs and a Raspberry Pi running a Python program
- Maintained large CAD assemblies, technical prints, and designed parts using PTC Creo
- Managed in house print farm using Linux Servers

EDUCATION

B.S. in Mechanical Engineering, University of Rhode Island, Kingston, RI   August 2014 - May 2018
- MCE 433 (Mechatronics), MCE 366 (System Dynamics), MCE 372 (Engineering Analysis), MTH 215 (Linear Algebra)

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Visual Basic
Technologies: Linux, Git, GitHub, Raspberry Pi, Arduino, ROS, RViz, Gazebo, OpenCV
Mechanical: PTC Creo, SolidWorks, Fusion360, FEA, Simulation, 3D-Printing, CNC Machining, CAM
Electrical: Altium Designer, KiCad