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THOMAS BURROW

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY '14 (CAMBRIDGE, MA) **FALL 2010-JUNE 2014**

- S.B. in Mechanical Engineering; Electrical Engineering side focus

WORK EXPERIENCE

WRIGHTSPEED (ALAMEDA, CA) **DECEMBER 2016-MARCH 2017**

Vehicle Integration Lead Engineer under Ian Wright – ian@wrightspeed.com

- Routed LV/HV harnesses and fluids (in CAD and on trucks). Owned several high level BOMs for vehicle kits
- Integrated PCBs and other components into rugged subassemblies for vehicle mounting
- Managed and wrenched alongside three technicians on several garbage trucks and a city bus

WRIGHTSPEED (ALAMEDA, CA) **MARCH 2015-NOVEMBER 2016**

Test Engineer under Amanda Abramson – amanda@wrightspeed.com

- Led testing program for multiple Fulcrum microturbine generations. Key design role in fuel system and sensors
- Assembled and debugged prototypes. Wrote test software, analyzed data, regularly drove and repaired trucks
- On-boarded and managed two full-time engineers and an intern, each of whom supported many projects in parallel

SONABOS TECHNOLOGIES (CAMBRIDGE, MA) **MAY 2014-JANUARY 2015**

Co-Founder & CEO

- Founded audio company with two other engineers, starting during MIT's Global Founders' Skills Accelerator (GFSA)
- Led development of hardware (sheetmetal enclosures and PCBs) for groundbreaking DJ product: SetSaver
- Wrote the majority of the business plan and pitched to a variety of audiences, ultimately raising about $60k of funding

CAMBRIDGE PROTOTYPING (CAMBRIDGE, MA) **JULY 2013-JANUARY 2014**

Mechanical Engineering Contractor

- Worked with an electrical engineer to win a contract and produce two restaurant appliance prototypes for a client

LIGHT & MOTION INDUSTRIES, INC. (MONTEREY, CA) **MAY-AUGUST 2013**

Summer Engineering Intern under Chris McCaslin – cmccaslin@lightandmotion.com

- PCB design including tweaking boost circuits and charging systems, and soldering SM parts to test design changes
- Designed several mechanical parts for 2014 dive lights, reducing production costs of those models
- Developed Python suite for charger and battery testing (incl. GUI, data logging, analysis, and extensive automation)

MIT INSTITUTE FOR SOLDIER NANOTECHNOLOGIES (CAMBRIDGE, MA) **MAY 2012-MAY 2013**

UROP as Undergraduate Research Assistant under Dr. Noel Elman – nelman@mit.edu

- Characterized medical MEMS device concept for wirelessly-controlled drug delivery system
- Automated and accelerated lengthy test process by interfacing with several lab instruments using MATLAB and SCPI

EXELIS (ITT) – POWER SOLUTIONS (WEST SPRINGFIELD, MA) **JUNE 2010-AUGUST 2011**

Two summers and one winter break as Engineering Intern under Tom Reed - Tom.Reed@exelisinc.com, 413-263-6215

- Worked with small team to develop high power (1000+ amps at 28V, continuous) alternator and regulator system for military vehicles. Key role in assembly, harness, test, repair, and fabricating fixtures

FLYE CYCLES BICYCLE SHOP (SUNDERLAND, MA) **MAY-AUGUST 2009**

Summer Mechanic and Salesman under Norm Flye, 413-665-0033, info@flyecycles.com

- Built and repaired a wide variety of bicycles; cleaning, organizing, errands, restocking, helping customers

SKILLS

I SPECIALIZE IN: SolidWorks, EPDM, Onshape, LabVIEW, MATLAB, EAGLE/PCB design, CAN bus, Python, Arduino, Mathematica, electronic test equipment, EMI/noise countermeasures, automation, fabrication skills such as stack soldering and basic machining, coolant/hydraulic/pneumatic fittings and plumbing, connectors, and customer development
I'M FAMILIAR WITH: Simulink, Processing, Verilog, LTSPICE, UNIX, Git, web development, early-stage companies