

Portfolio website:
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Molly Farison

Electrical engineer

Education

B.S., Electrical and Computer Engineering, Dec 2013

Franklin W. Olin College of Engineering.

Hands-on, project-based engineering education.

Experience

Co-founder and CEO, Lilypad Scales, Jan 2013 - present

Designed all of the **analog and digital circuitry** and **developed all firmware** for a Bluetooth-connected wheelchair scale, all the way from initial prototype to manufactured product with 5-star reviews on Amazon.com. Designs included **analog and digital sensors, microcontrollers, Bluetooth 4.0, I2C, SPI, and batteries**. Also **made supplier decisions and negotiated pricing**, raised two rounds of funding, and managed an interdisciplinary team.

Consultant, Heads-Up Stabilizer, June 2013 - May 2014

Started with just an idea (concussion detector with indicator lights) and **designed and fabricated a functional prototype**. Iterated design until it **fit the mechanical form factor and met cost requirements**. Design included sensor, analog circuitry, microcontroller, LEDs, and battery.

Consultant, Boston Scientific, Sept 2012 - May 2013

Senior Capstone Project at Olin College. Designed an innovative new product to aid in diagnosis of lung cancer. **Managed interdisciplinary team of 6 students**, keeping team on schedule and maintaining high-level vision.

Engineering Intern, Altaeros Energies, May 2012 - Aug 2012

Did generator selection, cable analysis, and **power electronics architecture design** for the next prototype of an airborne wind turbine.

Engineering Intern, Rockwell Automation, June 2011 - Dec 2011

Performed **system-level testing and simulation studies of AC motor drives**. Created a data logging tool in LabVIEW that pulled parameters from AC motor drives in testing over Ethernet.

Engineering Intern, NASA, June 2010 - Jul 2010

Through a program at Olin College, worked on two projects for Goddard Space Flight Center astrophysicists: a **low voltage power supply** for a sounding rocket and a **control system** for a thermoelectric cooler.

Skills

- Embedded systems
- Low power systems
- DFM/A
- PCB layout
- Analog circuitry
- Digital circuitry
- Bluetooth, I2C, SPI
- Sensors
- Control systems