

mike cousins

[a-z]+ware/ engineer

Brooklyn, NY | mike@cousins.io | <http://mike.cousins.io> | @mcous

work

Opentrons Labworks

Robots for biologists | Brooklyn, NY | <https://opentrons.com>

Front-end software engineer

August 2017 to present

- Working on the [Opentrons app](#) built with **Electron**, **React**, **Redux**

Keen Home

Connected home products | New York, NY | <https://keenhome.io>

Senior product engineer

July 2015 to July 2017

Mechatronics engineer

November 2014 to July 2015

- Helped build Keen Home's API using **Scala**, **Elasticsearch**, **RabbitMQ**, **Redis**, **Docker**, and **AWS**
- Designed, scoped, built, and released the Keen API's **OAuth** server and web front-end
- Built and maintained **Node.js**-based API **integration tests**, admin tools, and schedule systems
- Wrote and shipped production [Smart Vent](#) firmware in **C** with the SiLabs Ember **ZigBee** stack
- Created factory software in **Scala** and **Node.js** / **Electron** with **React** and **Redux** frontends

tracespace

Open-source organization | <https://github.com/tracespace>

Creator and main contributor

July 2014 to present

- Published **Node.js Stream**-based **JavaScript** PCB to **SVG visualization libraries** to **npm**
- Launched a free client-side [PCB viewer webapp](#) built with **Deku**, **Redux**, and **Web Workers**

Wiley Cousins

Software and hardware development shop | New Orleans, LA

Co-founder and hardware engineer

October 2013 to October 2014

- Designed CAD (**SolidWorks** and **KiCad**) and firmware (**AVR 8-bit**) for the [clockblock LED clock](#)
- Taught 12 week hands-on circuits class taking students from no experience up to digital logic

libraries, tools, and skills

JavaScript - Node.js (and built-in libraries), npm, Mocha, Zuul, testdouble.js, Lodash, Bluebird

Frontend web - Redux, React, bundlers, Web Workers, WebSockets, SVG, Sketch, Tachyons

Backend web - Elasticsearch, RabbitMQ, Redis, AWS (EC2, Lambda, S3), Docker, NGINX

Hardware - Embedded C, AVR 8-bit, ARM Cortex, ZigBee, KiCad, PCB assembly, SolidWorks

Scala - Akka, Spray, Jackson, Elastic4s, sbt

education

Northwestern University

McCormick School of Engineering | Evanston, IL

Bachelor of Science in Mechanical Engineering (concentrating in intelligent mechanical systems)