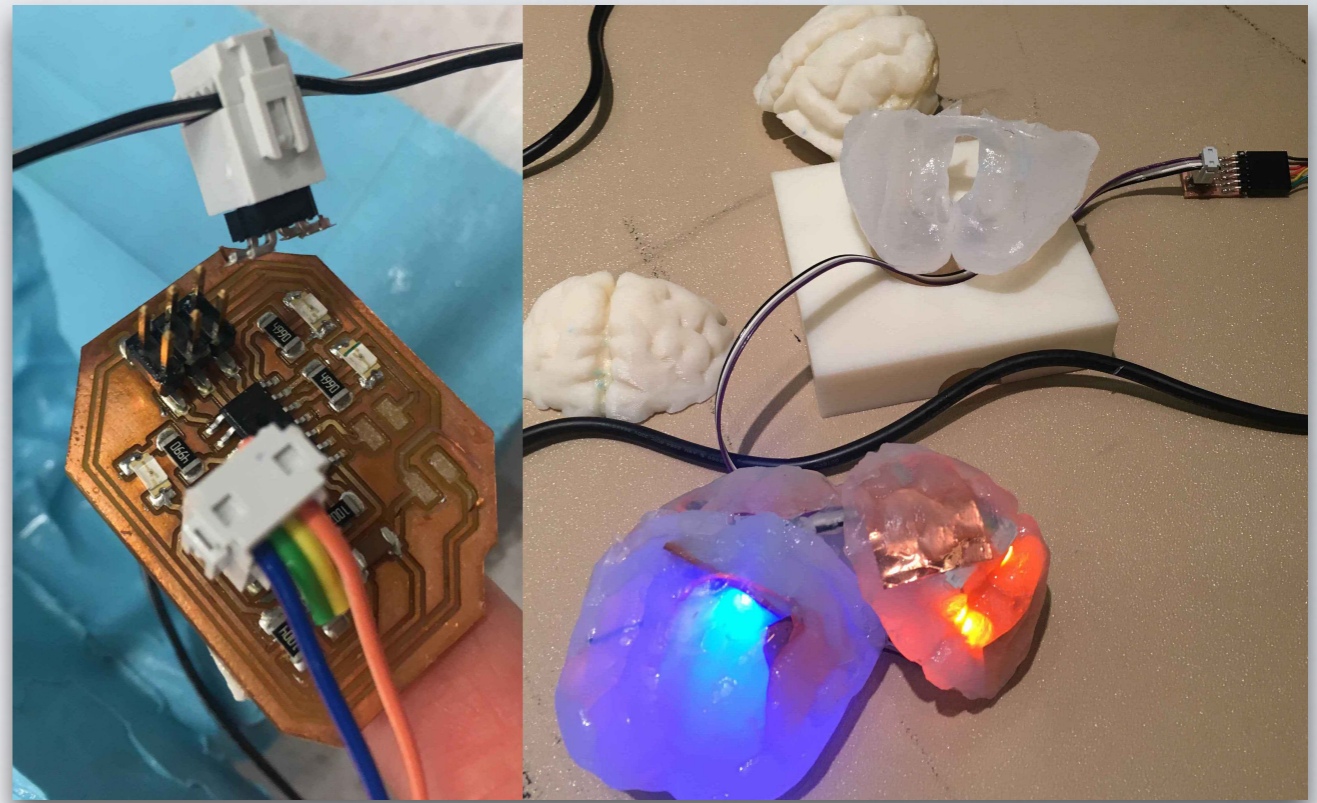


6.943J: How to Make (almost) Anything

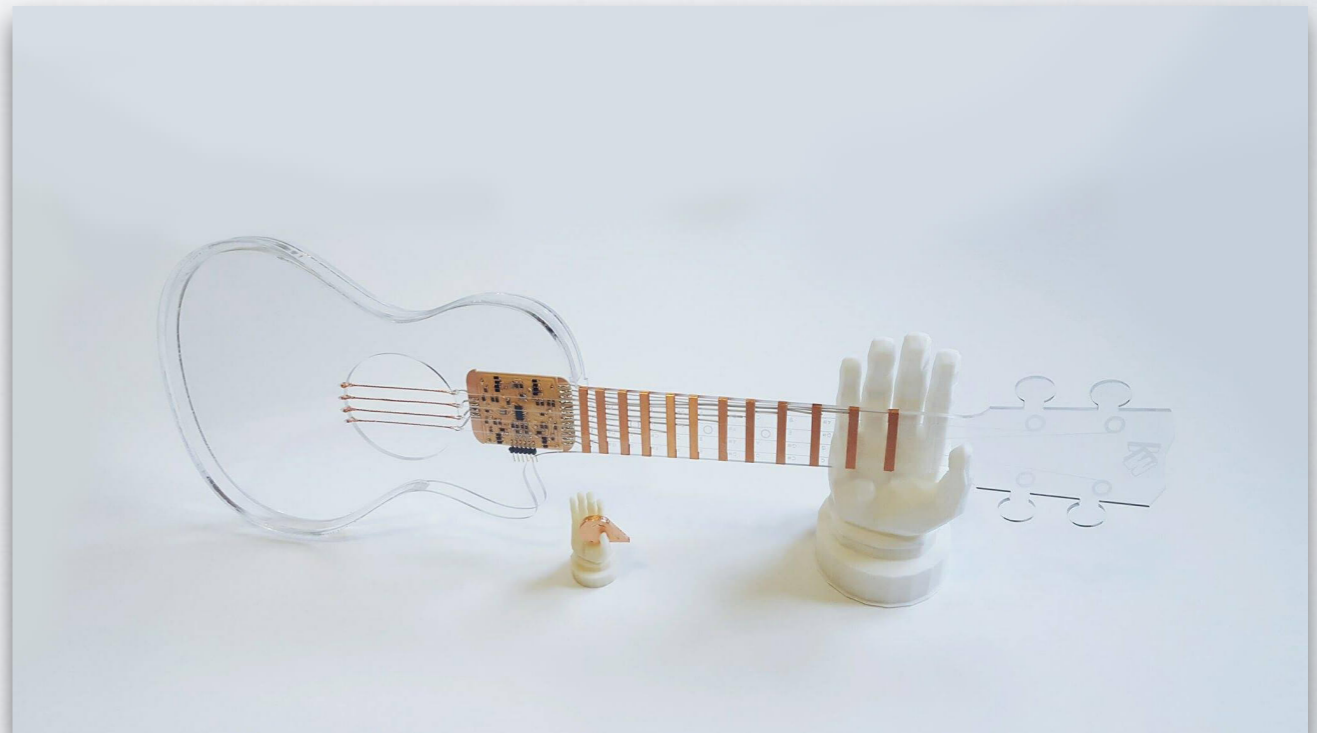
- joint class with **MAS.863** & **4.140**, taught every fall
 - lectures led by Prof. Neil Gershenfeld
 - EECS section led by Gavin Darcey, EECS Technical Instructor
- 4 class sections: **MAS, EECS, Architecture, Harvard**
- ~18 students per section
- historically oversubscribed, over 100 undergraduate and graduate students across campus attend first lecture and submit application
- lottery system creates sections with ranges of student background and experience
- all 4 sections meet together once/week for lecture
- sections perform weekly assignments in respective workshops
- 3 - 9 - 6 unit distribution (18 total)

Fall 2016 Example Projects

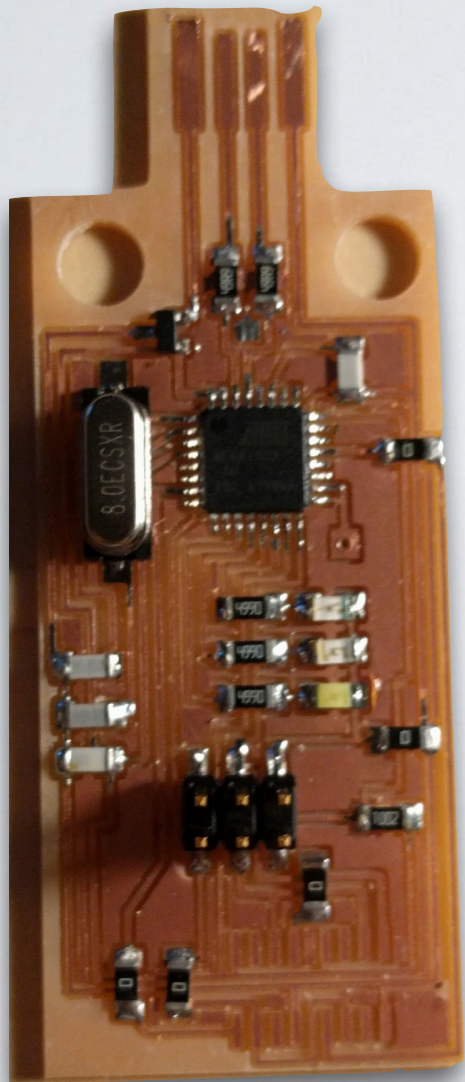
- 3D brain map, with networked lobes communicating through embedded custom PCBs



- capacitive-touch, laser-cut ukulele



- personally fabricated USB flash drive with gesture-based security



Fall 2016 Trial

- **6.S976:** pilot EECS section based in Engineering Design Studio
 - 12 students - 8 EECS, 2 MechE, 1 Materials Science, 1 Sloan
 - 7 undergraduates, 5 graduates
 - EECS section kept deliberately small for test run
- course fosters communal environment - laboratory resources and class concepts used frequently in future semesters with continuing classes, UROPs, research
- course focuses on **topics which are traditionally acquired through self-taught learning, yet necessary to perform effective research**

Permanent EECS Section: 6.943

- 14 weekly topics are directly related to EECS and supplement department headers and AUS subjects
 - e.g. PCB design, component selection, web design, embedded systems, 2D & 3D CAD, 3D printing
 - students design and fabricate in-house ~1 PCB per week, learn to assemble using surface-mount devices
 - students receive exposure to variety of machining tools, materials, and techniques - culminating with final project
- full syllabus available at: eds.mit.edu/classes