



# An Open Source Platform for Hearing Aid Algorithms

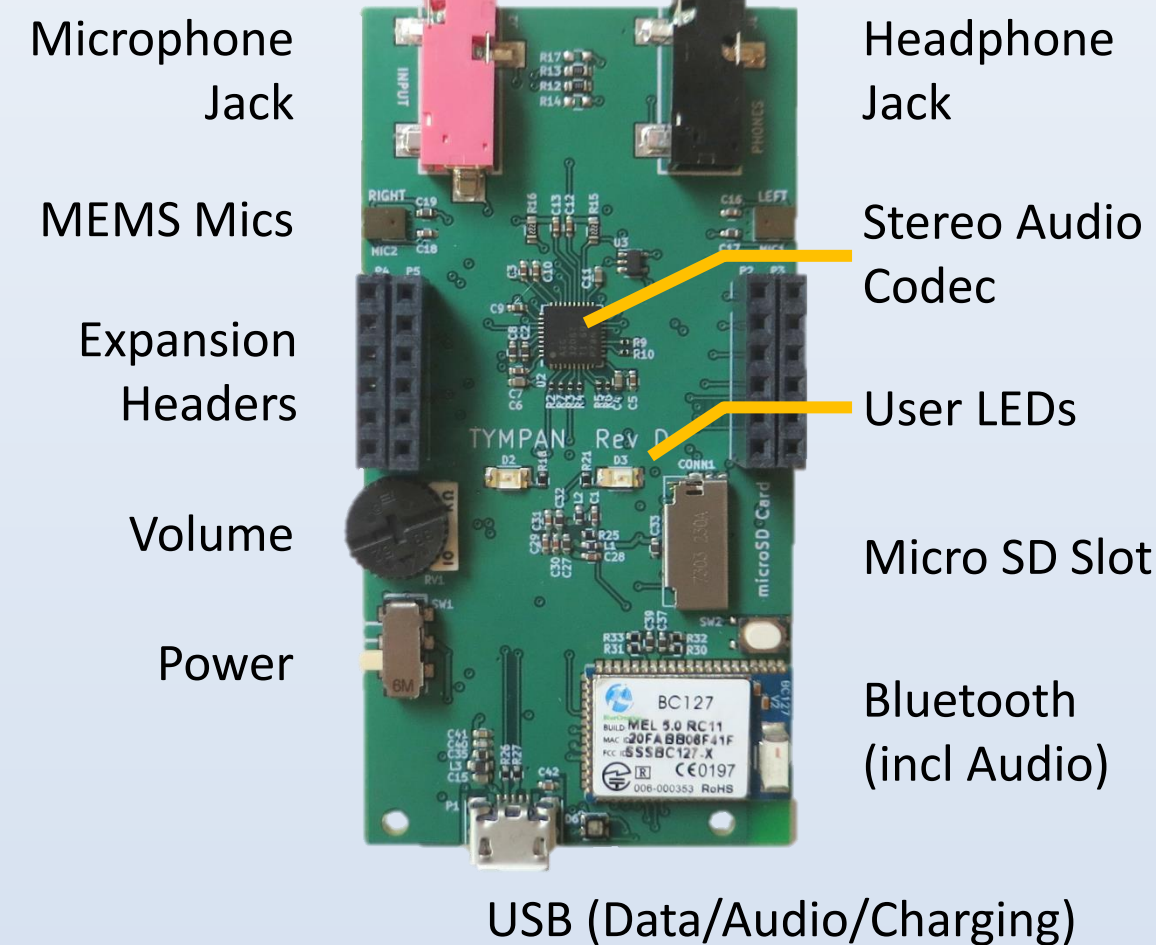
William (Chip) Audette, Odile Clavier, Create LLC;

Daniel Rasetshwane, Stephen Neely, Ryan McCreery, Boys Town National Research Hospital;

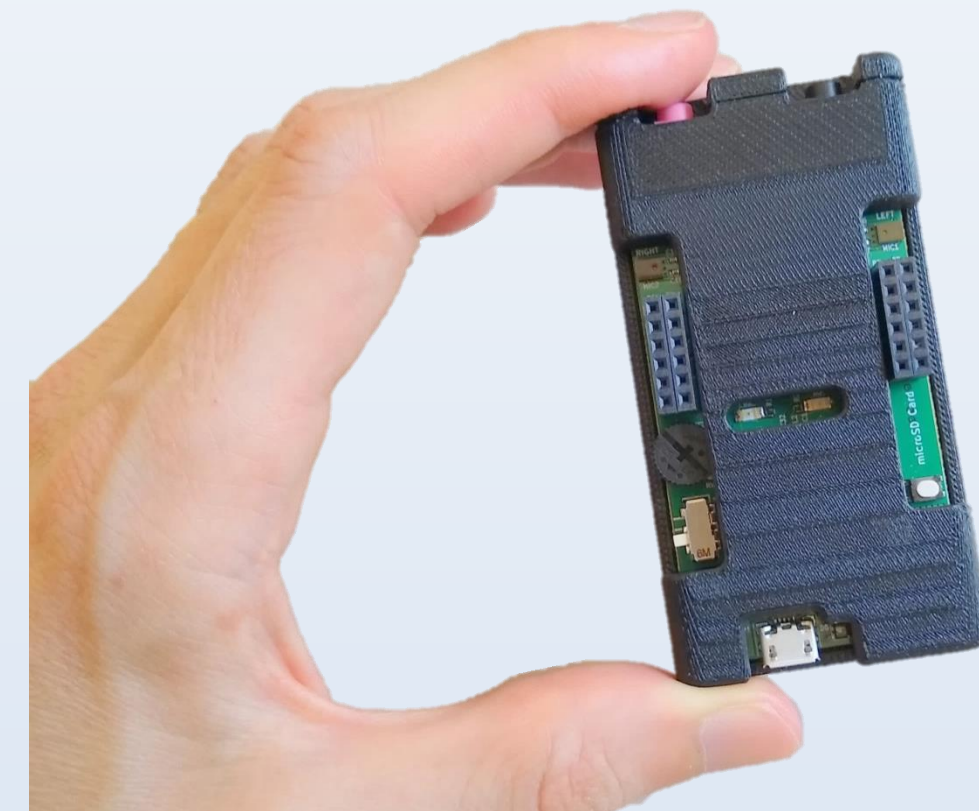
Marc Brennan, University of Nebraska-Lincoln; Joel Murphy, Tympan



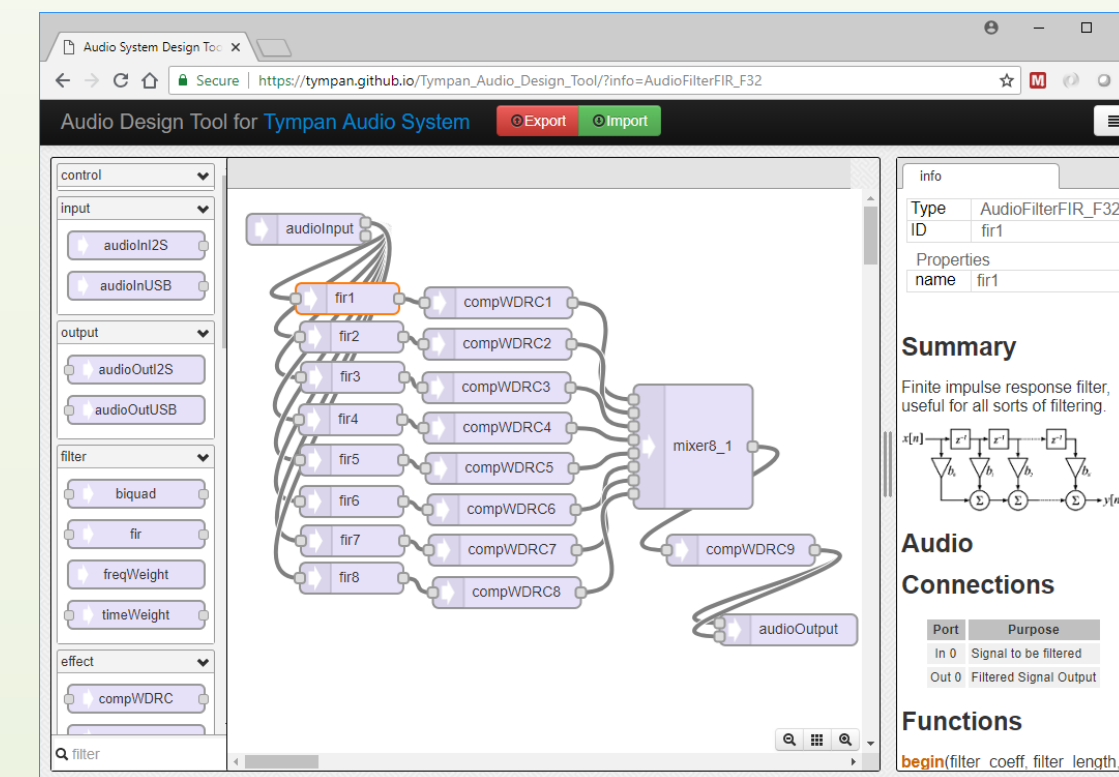
## HARDWARE



Open, Extensible Hardware

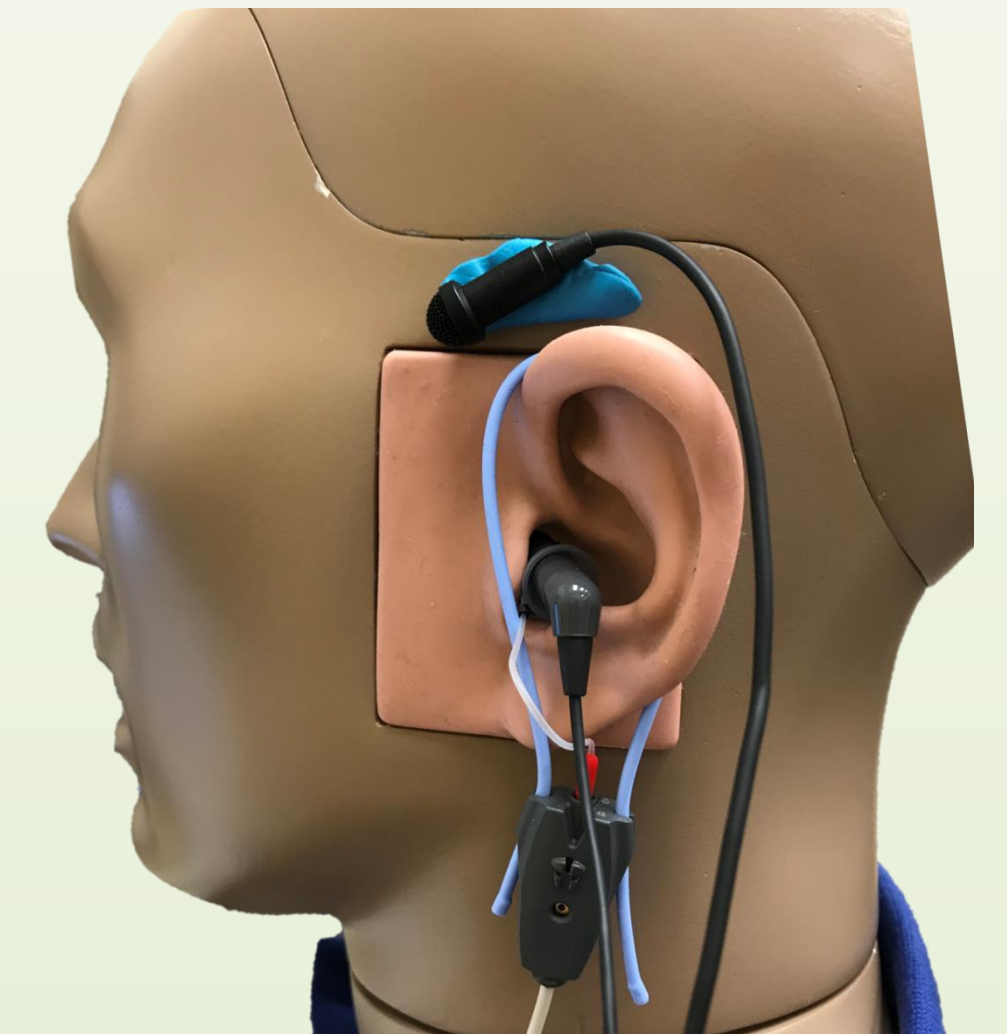


Small and Battery Powered



GUI For Starting New Algorithms

## ALGORITHMS



Testing a Feedback Cancellation Algorithm

## WHAT WE DO

**Goal:** To get **you** started with real-time audio processing.

**Why:** Greater participation leads to greater innovation.

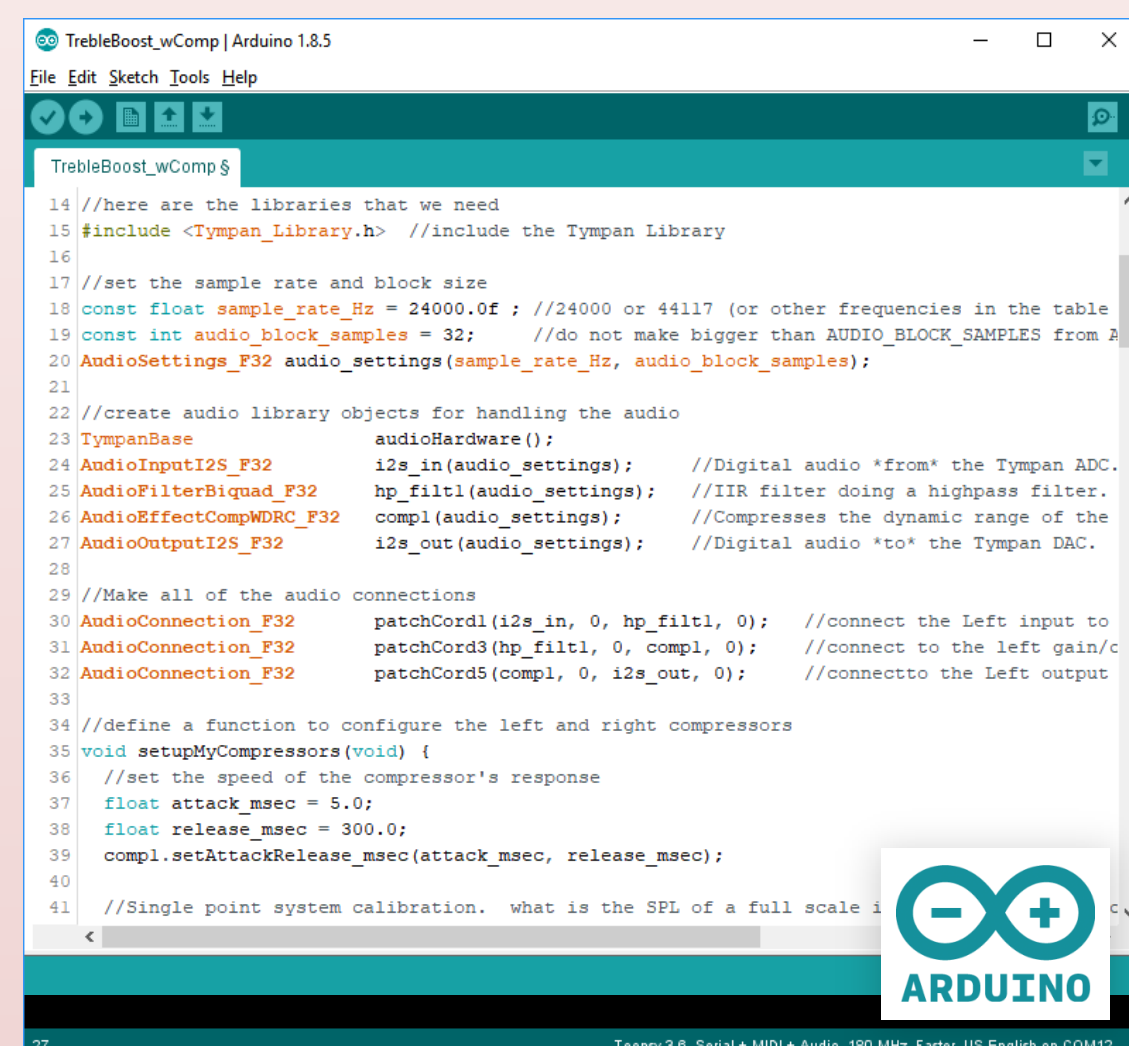
Audiology  
Researchers

Algorithm  
Developers

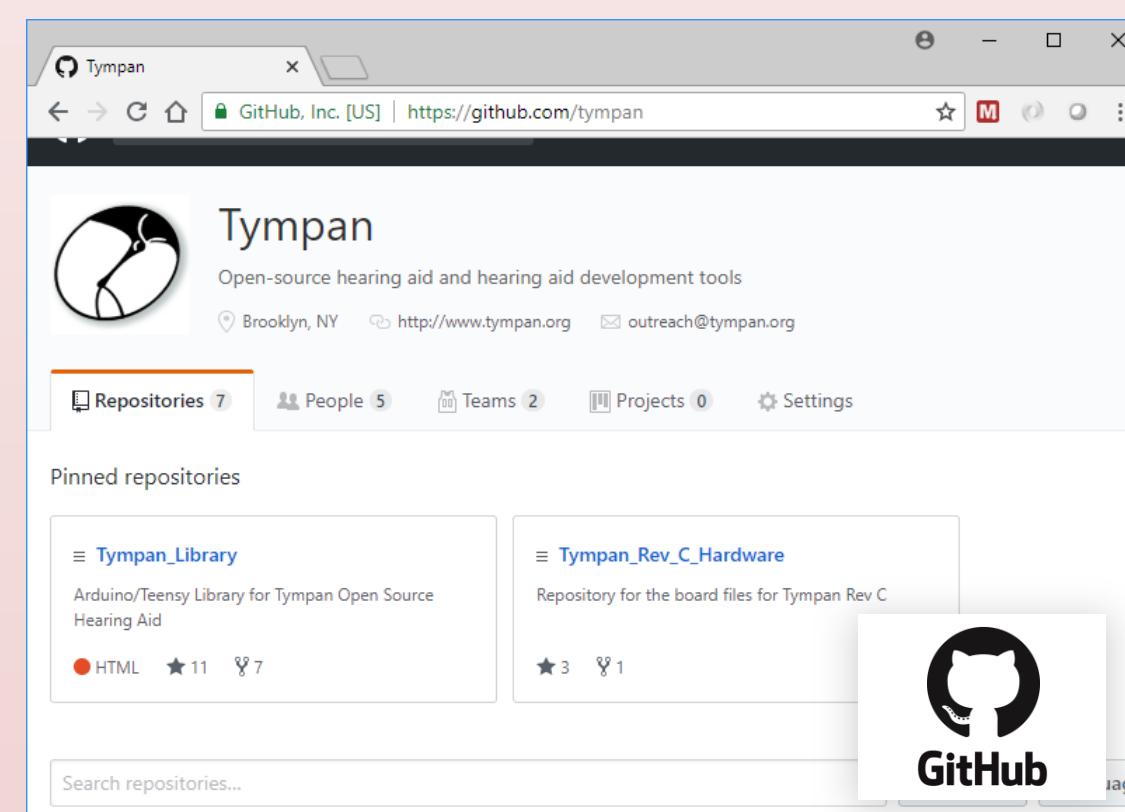
Students And  
Enthusiasts

**Approach:** Develop open Hardware, Software, Algorithms,  
and Community. **Make it approachable and fun!**

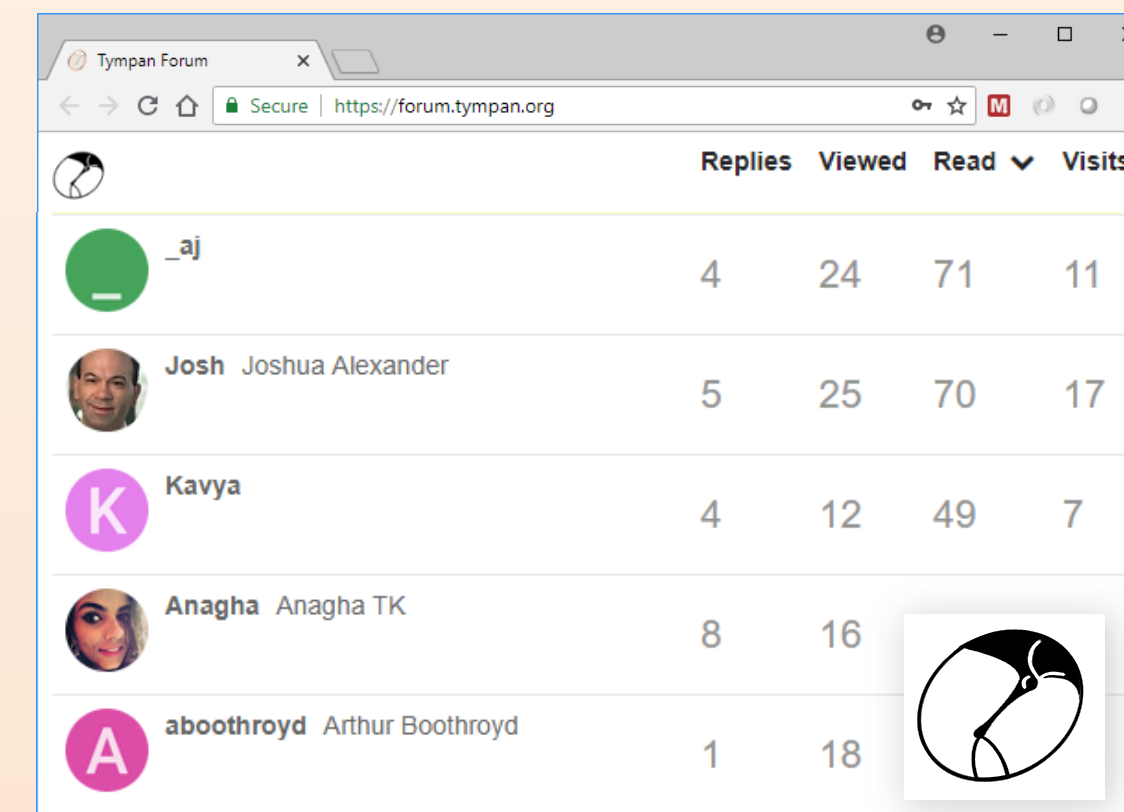
## SOFTWARE



Arduino (C/C++) Examples

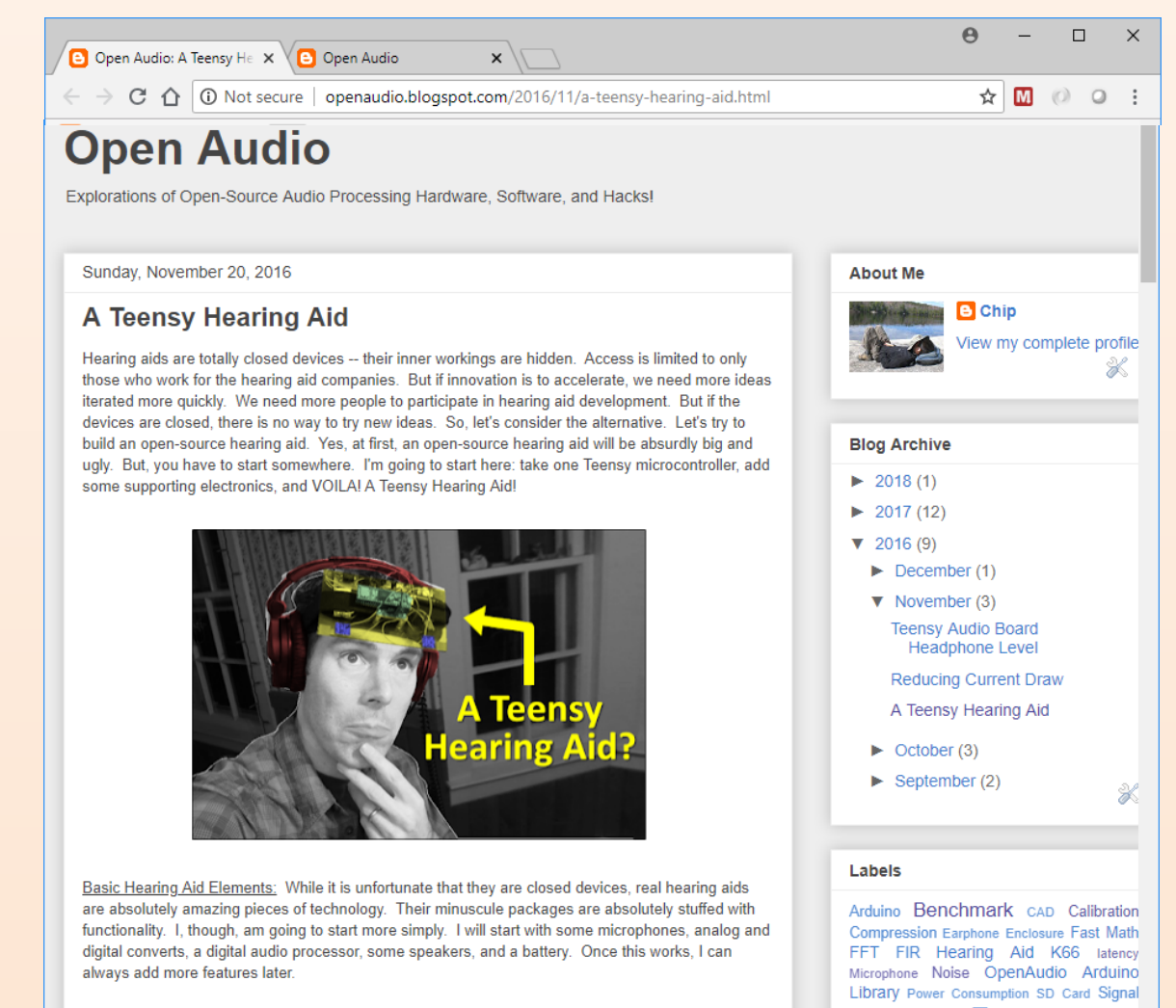


Open Source Sharing and Collaboration



Learn and Troubleshoot via Forum

## COMMUNITY



Share Your Fun Projects!