

Biomedical Engineering Society 2016-2017



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Treasurer: Yandi Farinango

Networker: Mohit Dhande

Secretary: Yassmin Saqri

AGENDA

- Introduction
- Projects
- Future Events
- National Conference
- Membership

Introduction

- Who are we?
- What do we do?
 - Projects
 - Professional Development
 - Volunteering
 - Networking
- Why be a part of this?
 - Build your resume
 - Build your network
 - Develop skills
 - Don't be one of the masses

Current Statistics

According to BLS.gov...

- 2015 Median Salary: \$86,220
- Job Outlook 2014-2024: 23% (much faster than average)
- Employment Change 2014-2024: 5,100

According to USNews

- #2 best engineering job, with only 2.3% unemployment

Projects

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3D Printed Prosthetics

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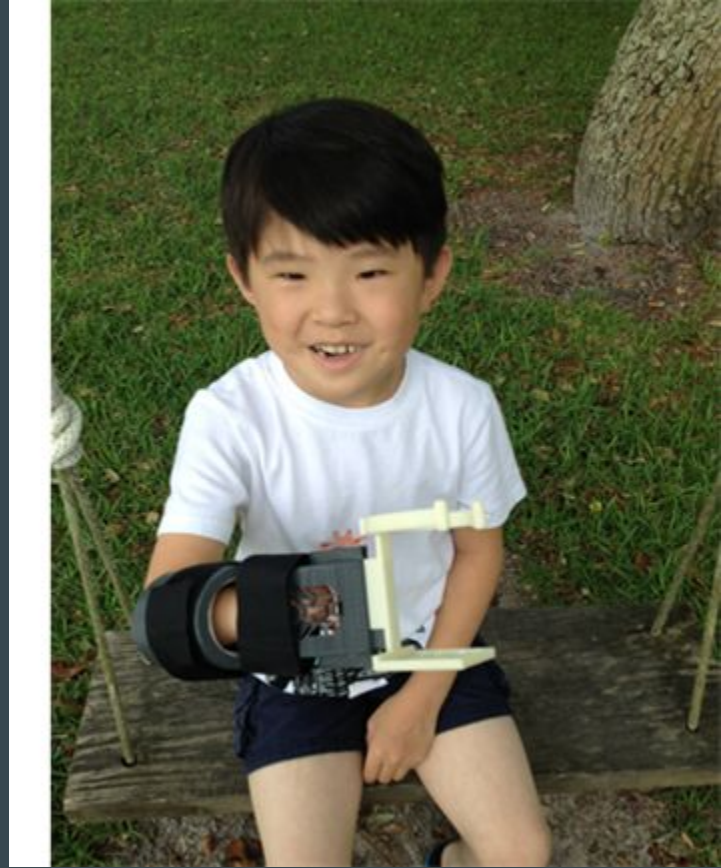


- RIT arm used for below the elbow amputations
- Made in SolidWorks



Upcoming Projects

- Create a grasping palm for Drew
- Design new attachments
- Basketball holder
- Shovel
- Hair/toothbrush holder
ect.



Brain Computer Interface

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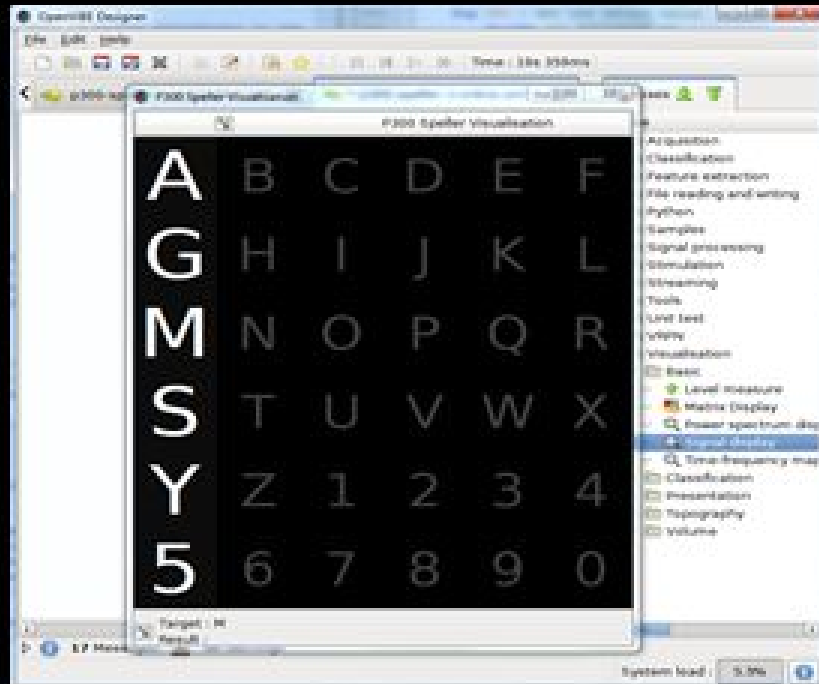
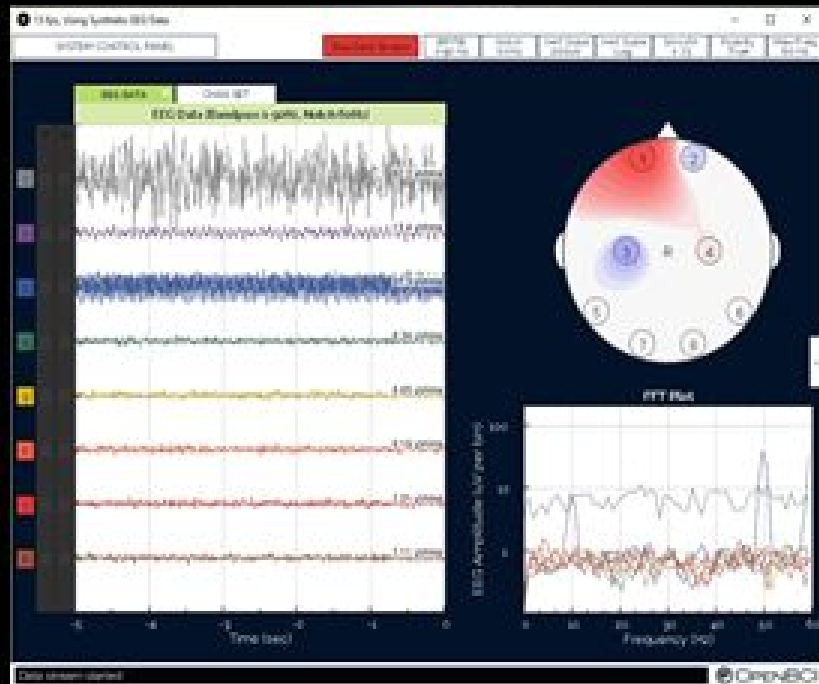
Brain-Computer Interface

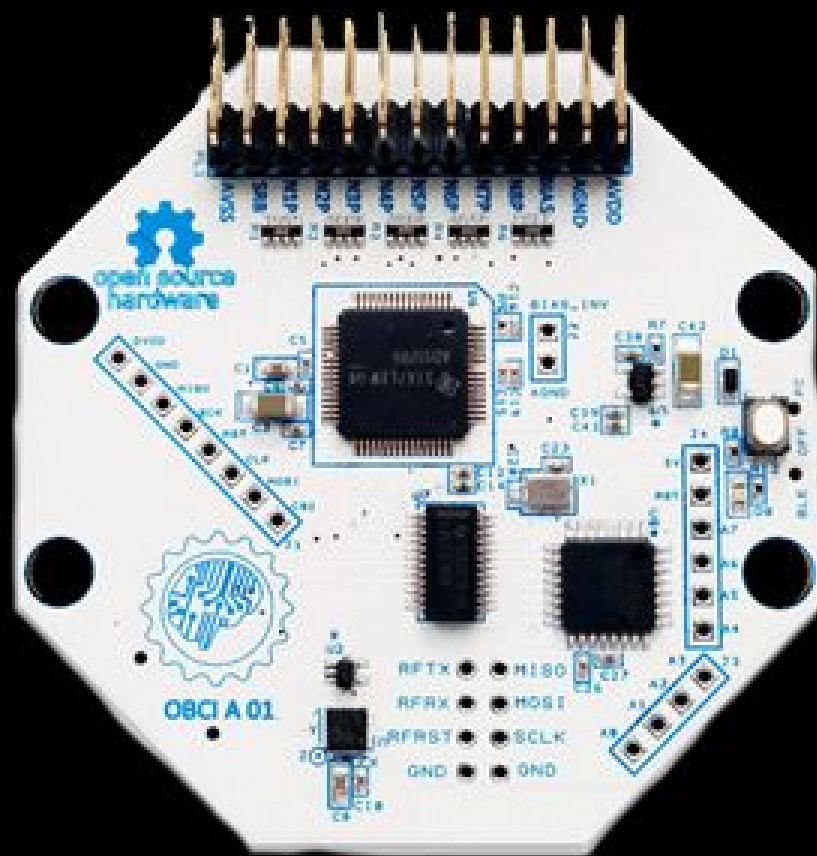
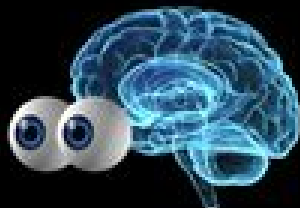
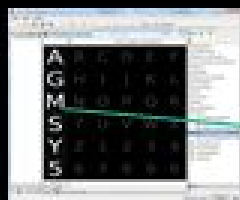
OBJECTIVE:

Use biological signals acquired from the brain to communicate with the computer.



OpenBCI and OpenViBE



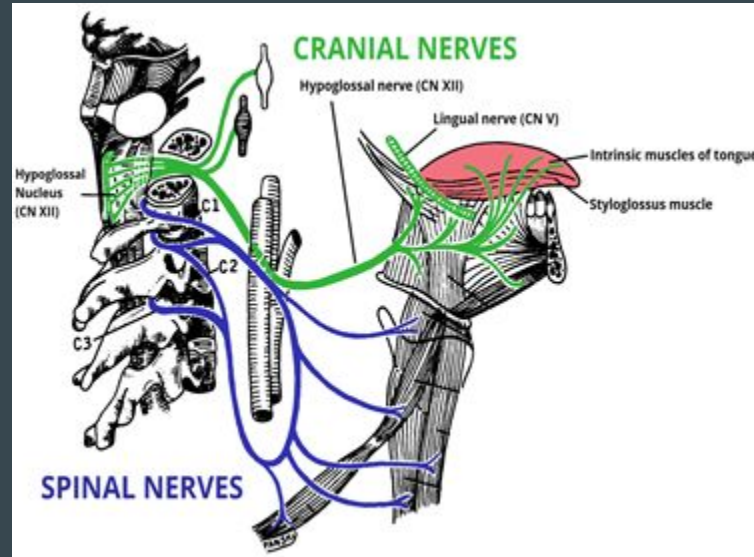


Tongue Computer Interface

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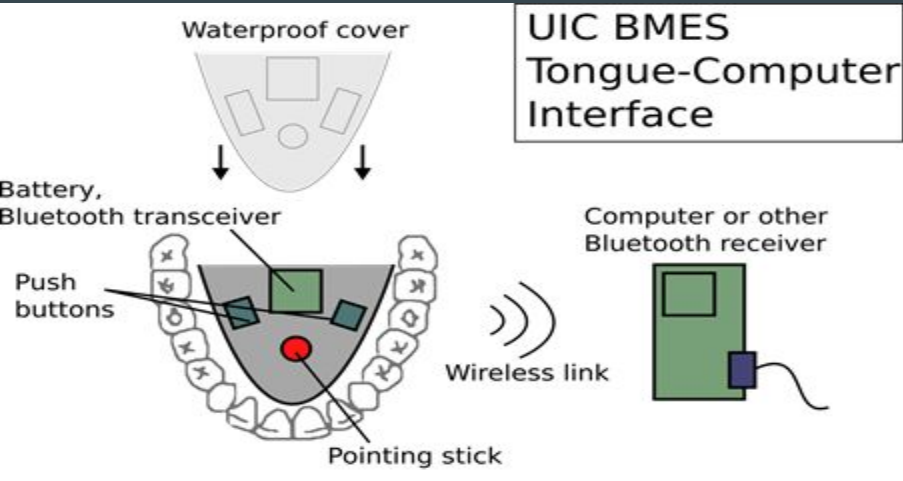
Why the Tongue?

- The tongue is unhindered in motor-impairing diseases and spinal.
- This allows for patients to still have control over the tongue without being able to control other extremities.



The Device

- Functions as a computer mouse, consist of a joystick with two pushbuttons.
- Bluetooth enabled.
- Mounted on the upper palate of the mouth.
- Waterproof housing.



Future Events

- Kit Building (Week 4)
- Starved Rock Trip (Week 4)
- Alumni Guest Speaker from Epic (Week 5)
- NATIONAL CONFERENCE (Week 7)
- Baxter speaker (Week 9)
- Baxter Visit (Week 10)
- Industry Day (Week 11-13)
- And that's just Fall...

National Conference

- What?
 - National Meeting of all BMES members. Panel talks, presented research, and employers.
- Where?
 - Minneapolis, Minnesota (University of Minnesota)
- When?
 - Tentatively Oct 6-8 (leaving October 5th after school)
- How Much?
 - \$250 if you register by Friday Sept 2.
 - (That's this Friday)

National Conference

- Why?
 - Networking (employment AND grad school)
 - Job/internship search
 - Interview talking point
 - Resume builder
- Details
 - BMES will cover transportation, housing, and partial rebate on registration for up to 24 BMES members.

Membership

- Membership must be renewed annually
- Student fee is \$30 (Required)
 - Send email confirmation to Treasurer
- Benefits:
 - Can go to BMES events and participate in projects
 - Can go to Regional and Nationals events
 - Access to journals

Questions? Comments? Concerns? Fears?

If you went to industry day...

- Industry day improvement?
 - New group of people or have everyone come back
 - Format
 - Siemens, Argonne, Zimmer, GE healthcare