



BMES

BIOMEDICAL ENGINEERING SOCIETY



Mohi Ahmed
Shana Terai
Nidaa Ramahi
Mohit Dhande
Yandi Farinango
Yassmin Saqri

Agenda

- **Regional Conference**
- **Volunteering**
- **Industry Day**
- **AMITA Hackathon Results**
- **Volleyball game outing**
- **Skill Building Activity!**

Regional Conference

- **Friday Nov. 4, 2016 @UIUC**
- **\$55 dollar registration until Nov. 1**
- **8:45AM to 5:30PM**
- **Panel Sessions: Industry and Academic**
- **3 networking breaks and one career networking**

Library Volunteering

- If interested, email curiositymachinecpl@gmail.com
- Get fingerprinted, find a friend, and volunteer this and next semester.

Industry Day

- **Friday November 18, 2PM to 4PM**
- **Speed dating with representatives from healthcare companies**
- **Specific companies announced within next 2 weeks**
- **Taking only ~100 of the 275 BioE's at UIC so RSVP**
- **Michelle Johnson, new Assistant Director of ECC**
 - **Specifically in charge of BioE's**
 - **Ask for mock interviews, juggling job offers, and other career resources**

AMITA Design Challenge

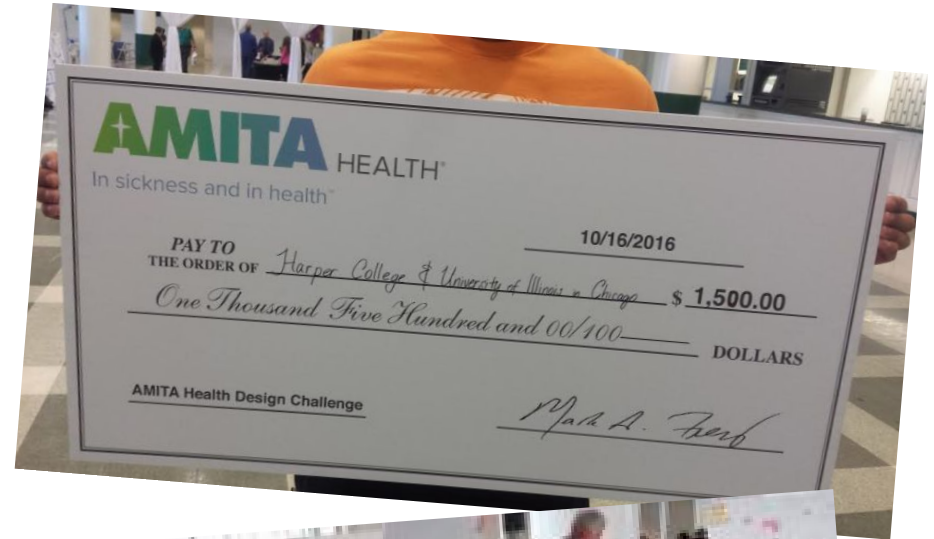


Students tackle senior health issues through AMITA challenge

Teams of college students used Arlington International Racecourse as an incubator for ideas over the weekend, spurning sleep to devise ways technology can help...

DAILYHERALD.COM | BY STEVE ZALUSKY

CONGRATS BMES!!



WOMEN'S VOLLEYBALL Game - OCT 28TH!

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WOMEN'S VOLLEYBALL

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STATE

[▶ BOX SCORE](#) [▶ RECAP](#)

OCT 15 (SAT) / 3:00 PM

HORIZON AT NORTHERN KENTUCKY

HIGHLAND HEIGHTS, KY.

L, 0-3

[▶ BOX SCORE](#) [▶ RECAP](#)

OCT 21 (FRI) / 7:00 PM

HORIZON VS CLEVELAND STATE

/ [FLAMES ATHLETIC CENTER](#)

[▶ WATCH](#) [▶ LIVE STATS](#)

OCT 22 (SAT) / 4:00 PM

HORIZON VS OAKLAND

/ [FLAMES ATHLETIC CENTER](#)

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OCT 28 (FRI) / 6:00 PM

HORIZON VS MILWAUKEE

/ [FLAMES ATHLETIC CENTER](#)

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Neuroprosthetics



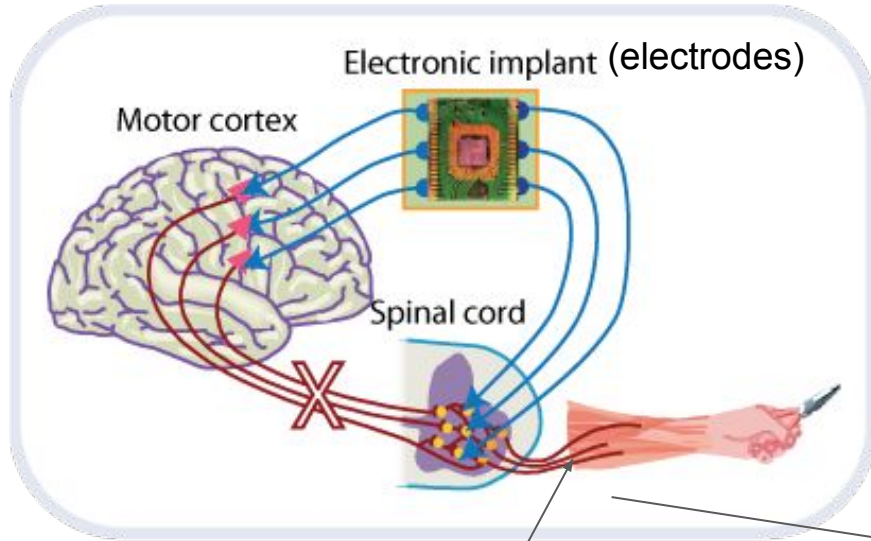
Göttschewitz's artificial arm, 16th century





The next level....

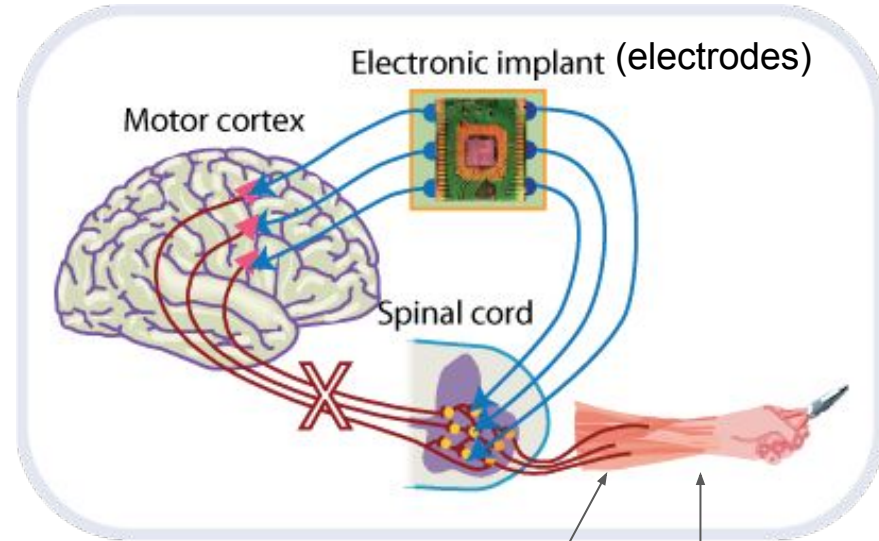
Subject 1:



Record

Transmit!

Subject 2:



Stimulate

Observe

Today's Activity

- Record EMG activity using the OpenBCI
- Process the data 'off-line'
- Build simple servo circuit
- Implement thresholding algorithm to actuate servo

Main goal: Understand how biomedical devices work and the steps involved

1. Signal detection with a biological sensor (OpenBCI)
2. Signal processing (MATLAB)
3. Signal transduction (MATLAB/Arduino)

Go ahead and...

1. Download OpenBCI software