

# BMEN 428, CSCE/ECEN 489

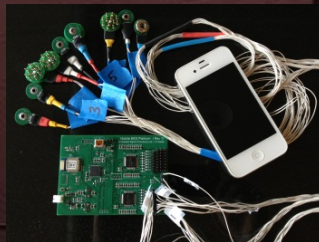
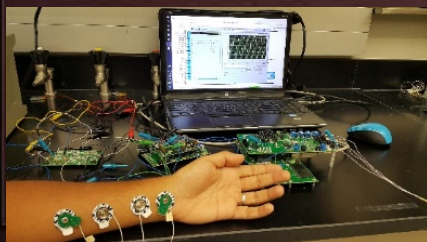
## Microcontrollers and Communications in Medical Devices/Medical Embedded Systems

- Microcontrollers are integral to wearables and the IoT
- Learn interrupts, timers, digital and analog interfaces, bio-potential and bio-optical sensors, wireless communication (Bluetooth) and basic real-time signal processing.
- Learn how to write code for these devices – no prior programming experience necessary!
- Work with leading industrial tools including Texas Instruments Code Composer Studio
- Hands-on lab experience will show you how to quickly prototype a system for physiological monitoring
- **Graduate students may be enrolled in the grad version of the class – BMEN 689!**

**AggiePad Experimenter Kit used for Labs**



*Registration spots still open for Fall 2017!*  
*MW 1:50-2:40pm*  
*Lab options available 8-10:50am T, W, R, or F*



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