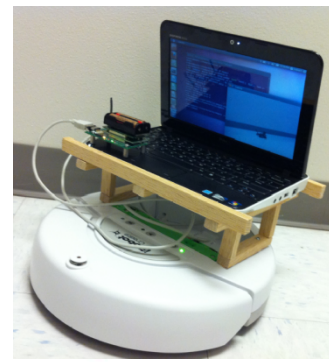


Summer 2014

# Research Experiences for Undergraduates in Mobile Cyber-Physical Systems



This REU Site is co-funded by the Department of Defense in partnership with the NSF REU program and hosted at Texas State University – San Marcos



**Recruiting 10 motivated undergraduate students to conduct research in the general area of mobile Cyber-Physical Systems (CPSs) for 10 weeks over the summer of 2014**

## Research overview

The main research theme of this opportunity is in the general area of Mobile Cyber-Physical Systems. A Mobile CPS refers to a system composed of physical and computation components that are mobile and can communicate over a network. A swarm of robots is an example of a Mobile CPS. Users roaming with their cell phones is another example of a mobile CPS. Here are few example applications:

- Target tracking, search and rescue and border control
- Intelligent transportation systems and vehicular networks
- Sensing with mobile nodes

## Benefits:

- ✓ Learn how to conduct research
- ✓ Gain hands-on experience in configuring robots and sensors, writing simulation scripts and conducting analysis
- ✓ Participate in various activities (e.g., seminars, tutorials, picnics, etc..)
- ✓ Learn how to write research papers and present your work
- ✓ Visit nearby hi-tech companies (e.g., Intel)

## Other benefits include:

- \$5000 stipend
- Travel support (up to \$600)
- Housing and meals included

## Important dates:

Application due .....1 Mar 2014  
Notification.....15 Mar 2014  
Program starts.....2 Jun 2014  
Program ends .....8 Aug 2014

Must be a U.S. citizen or a permanent resident

For more information and to apply:

<http://reu-mcps.cs.txstate.edu>