

Research Project for Dr. James Conrad

Project title: Wireless test bed for communications protocols

Date posted: June 21, 2005

Type of research: __ Minor effort (0-40 hours)
 __ Embedded Class Project (41 - 90 hours)
 __ MS without thesis project (91 - 150 hours)
 __ Special Topics Class research (151- 400 hours)
 xx MS Thesis (401 - 2000 hours)
 __ PhD Dissertation (2000+ hours)

Paid? __ Research Assistantship available
 xx no funding
 xx possibility for funding
 Funding source: NSF Grant submitted, will know by 8/31/05 if funded

Description:

Students will work with Drs. Conrad, Xie, and Howitt, and with two other students to work on an empirical test bed setup for wireless communications. Prerequisite: Requires knowledge of Atmel AVR architecture and wireless technologies (802.11 and 801.15.4), grade of A in ECGR 5101 (Embedded Systems), enrollment in ECGR 6185 (Advanced Embedded Systems).

References:

James M. Conrad and Ivan Howitt, "Software and Hardware Tools for Teaching Communications Concepts and Introducing Students to Low-Power Wireless Communications," *Proceedings of the 2004 International Conference on Engineering Education*, Gainesville, FL, October 2004.