College of Engineering
Summer Research Experience for Undergraduates Program

Request for an Engineering Student for Summer 2012 Research

Faculty Name _Hossein Pishro-Nik_____________________________

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Department ______ECE___________Email: ___pishro@ecs.umass.edu________________

Brief description of Summer Research Project (please explain the interdisciplinary nature of this project).

This is an interdisciplinary projects involving wireless networking, transportation engineering, and Statistics. In this REU project, our goal is to develop adaptive algorithms to be used in vehicular communications (Connected Vehicle Technology).

Brief description of what the student will be doing:

The student will work on probability and statistical problems, and will design adaptive algorithms to be used in vehicular communications. The student will also perform computer simulation to implement the algorithms. The student will work closely with graduate students working in my lab.

Is this a CASA-related project? Yes ___ No _x__

Preferred background of student (major(s), class, GPA, pre-requisites, etc.):

The student must have passed an undergraduate-level course in probability and statistics (such as ECE314), should have strong mathematical skills, and also should be familiar with programming.

Did you mentor a student last summer in the College REU Program?
Yes_____ No _x__

If yes, please describe the outcomes for that student (i.e. Honor’s thesis, conference presentations, manuscripts, papers, etc. Describe accomplishments to date as well as plans for the spring semester if the work has continued):

Please return this form to: lrobidou@ecs.umass.edu by February 3, 2012