



Fall 2007 Course Announcement

AE 498 MPA: Intelligent Mobile Navigation

In this course you will learn the basic principles of motion planning by focusing on their application to navigation aids, which help real people make real decisions. **Student teams will each work with a new Nokia N95 smartphone**, donated by Nokia Palo Alto Research. We will use these phones as a platform to discuss embedded software development (with a crash course in Symbian C++ programming), localization and mapping (using GPS signals), search algorithms (to generate driving directions), and human-machine interaction (optimal interface design). The course will culminate in student projects.

CRN#: 48365
Instructor: Prof. Tim Bretl
Office: 321A Talbot Lab
Email: tbretl@uiuc.edu
Web: <http://www.ae.uiuc.edu/~tbretl>
Credit: 3-4 hours
Time/Place: To be arranged (see website)

This course is intended for any senior or graduate students in the College of Engineering who are interested in a significant programming project. It is also appropriate for students from other departments such as Psychology or Urban Planning who have a technical background.

Email Prof. Bretl if you are interested (tbretl@uiuc.edu).
The first class meeting will be at 5PM Monday, August 27, in Talbot 319N.