

# The Freshman's Friend

CSE 477

Spring 2001

University of  
Washington

## Features:

- Color graphical user interface
- Real-time user location and heading information
- Directions to any building in seconds
- Enables students to make friends by sharing with their new classmates
- Portable unit can be taken anywhere

### Contact Information:

Sales:

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Support:

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Large user display shows students their current location and final destination

Graphical compass display gives students their bearings in unfamiliar territory

Below the map, users can see their current location and destination as well as select a different destination

We at Freshman's Friend Inc. realize the overwhelming landscape of the University of Washington campus. This causes numerous problems ranging from lost delivery drivers to crowds of freshmen huddled around campus maps. Our product, the Freshman's Friend, solves these problems by integrating Global Positioning System (GPS) technology into a handheld computing device. Using this technology, our users can view their exact heading and location and get directions to any building on campus.

The Freshman's Friend is based upon three major components: the Compaq iPaq handheld computing device, the Garmin GPS25-LVS GPS receiver, and a digital compass. We integrate these devices using an 8051 microcontroller and the communication ports on the iPaq. Linked together with proprietary mapping software on the iPaq, the Freshman's Friend opens the door to a whole new world for collegiate freshmen all over America.