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Activity Report for MASc Candidates

Systems Design Engineering

Name and E-mail Address: Danny Ho (ycdho@engmail.uwaterloo.ca)

Date: September 08, 2003

Supervisor(s): Prof. Catherine M. Burns

Research Field and Area: Ergonomics, Human Factors and Biomedical Engineering (EHFBE) - Engineering

Program: Thesis MASc, full-time

Term/Status: 4.0 / Active

Start Date: September 1 , 2002

Funding Held

1. source: **C. Burns** , type: **RA** , amount/term: **2750** , period of tenure: **09/03 - 12/03**
description: Research Assistantship

Funding Applied For

Outline of Progress Toward Completion of Degree Requirements

Total number of 500/600/700-level courses credited to date: 0 / 2 / 1

Total number of 500/600/700-level courses taken for credit this term: 0 / 1 / 0

Total number of graduate courses taken for credit and taught by (co)supervisor(s) since start of program: 1

Total number of graduate courses with a grade of incomplete on current transcript: 0

Thesis/Project topic has been selected.

Review of background literature has essentially been completed.

Thesis/Project outline has been approved by supervisor(s).

Experimental/Theoretical research has not been essentially completed.

Seminar requirement has not been cleared.

First draft of thesis/project has not been submitted to supervisor(s).

No Program Time Limit Extensions have been granted.

Scholarly Activities Initiated or Completed This Term

- Prepared Final Submission for HFES 2003 Conference

Paper Title:

Ecological Interface Design in Aviation Domains:

Work Domain Analysis of Automated Collision Detection and Avoidance

- Completed TCAS 2 version 7 Visual Basic plug-in for MS Flight Simulator 2002

- Prepared Technical Report for thesis

Paper Title:

A Review of Experimentation Methodologies in the Area of
Aviation Displays and Trust in Automation

NOTE: Thesis progress located at URL: <http://thinair.uwaterloo.ca/~ycdho/aidl.html>

Plan for Completion of Degree Requirements

Sept 2003

- Develop and submit experimental design for ORE (Ethics Committee)
- Modify TCAS plugin to fit experimentation design
- Await Ethics approval for experimentation

Oct 2003

- Experimentation underway
- HFES Conference 13 - 17
- Graduate seminar, Oct. 29
- Analysis of Experiment data

Nov 2003

- Analysis of Experiment data
- Write and submit thesis paper
- Deliver to readers

Dec 2003

- Final thesis review for January 2004 submittal

Student's Comments

This is going to be an interesting term. Fingers are crossed...

- TAing SD 161
- Taking fourth course: KIN 631C
- HFES Conference
- Experimentation and thesis wrap-up