



EMBRY-RIDDLE
Aeronautical University

DAYTONA BEACH, FLORIDA

COLLEGE OF ARTS & SCIENCES
Human Factors & Systems



Current Student Theses

- Joseph Crimi
 - *The Integration of Information on the Disney Dining Plan*
- Ashley Karr
 - *Protective Measures: The Effects of Web Based Data Collection on the Reliability and Validity of Data*
- Heidi Mehrzad
 - *Heart-Rate Variability in Complex Divergent Task Load Levels and Interaction Quality*
- Kirsten Wade
 - *The Relationship Between Leadership Ratings and Heart Rate Variability Changes During a Simulated Military Task*

HFES 54th Annual Meeting

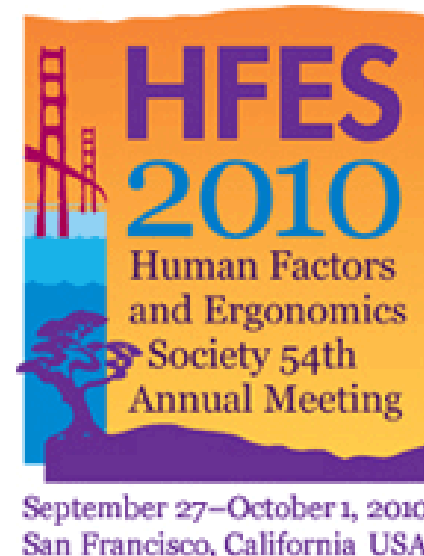
Location: San Francisco, CA

Dates: September 27-October 1, 2010

Registration is now open

Please visit www.HFES.org for more information

If you are interested in attending the HFES national meeting in San Francisco, CA please contact Joseph Crimi (joseph.crimi@gmail.com) or Jenissa Garcia (jenissa56@gmail.com) for more information.



Thursday, July 29, 2010

HPEE 8th Annual Meeting

The Society for Human Performance in Extreme Environments (HPEE) will hold its Eighth Annual Meeting on Sunday and Monday, September 27 and 28, 2010, in conjunction with the HFES 54th Annual Meeting. The HPEE meeting will feature presentations on topics such as spaceflight, military operations, underwater and high-altitude activities, extreme sports, and other environments that humans are not naturally suited to endure. Meeting proceedings will be available. Register online at www.hpee.org. HFES members are entitled to a discounted rate.

For more information about HPEE please see/contact

Dr. Jason Kring (jason.kring@erau.edu) or

Joseph Crimi (joseph.crimi@gmail.com)



September 27–October 1, 2010
San Francisco, California USA

Thursday, July 29, 2010

HFES Car Wash Fundraiser!

HFES is hosting a fundraiser to raise money to go to San Francisco for the 54th HFES Meeting. Everyone is welcome to help!

Sunday, August 8, 2010

11:00-3:00



Ritter's Frozen Custard Stand

4629 South Clyde Morris Boulevard, Port Orange, FL 32129

If you would like to help out please see/contact
Joseph Crimi (joseph.crimi@gmail.com) or
Jenissa Garcia (jenissa56@gmail.com)



HF Student Internships & Work Experiences

Allison Popola

HF Master's Student



NSWCDD (Naval Surface Warfare Center, Dahlgren Division) for the HSI (Human System Integration) Branch

I use human factors and system engineering applications to design, re-design, or assess current or future tools used by the US Navy and Marine Corps. Some examples of just a few things we do are working with military ground vehicles and the technology we put on them, designing the future fleet of destroyers or other ships for the Navy, designing portable tools to be used that gather UAV or video feed on the go, and many many other things for the military! I hold a security clearance, so I can't tell you everything that I'm working on, but it's awesome and I love it! :) I'm here for the summer as an intern, but they offered the job a week ago... and I accepted :) so I will be back here asap! Possibly as early as January!

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Joseph Crimi

HF Master's Student



Walt Disney Parks and Resorts

Currently, I work part time at Walt Disney World as a Research Specialist II. My role involves surveying guests in all 4 parks of Walt Disney World. Walt Disney Research is looking to learn as much about their guests as they possibly can to help shape the future of the parks and resorts; everything from where our guests travel from to ways we can enhance their experience. There are multiple things I was taught in one of my ERAU classes about surveys that I am using in my role today.

I had my first internship with Disney in the Fall of 2007 on The Disney College Program. This was a great experience and helped me get to know that company I love so well. I hope to one day have my career with The Walt Disney Company.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Robert Malony

HF Master's Student



Training and Development Coordinator Best Western Aku Tiki Inn, Daytona Beach

This summer I am working at the Best Western Aku Tiki Inn as their training and development coordinator. What I am tasked to do is create a training program for all the hotel's front desk and reservations staff. The training program that I am developing and implementing will cover basic hotel knowledge, how to use the hotel's property management system, and how to interact with guests.

I have been using almost every book used in my HF classes as well as using all the theories and laws I learned in my training and development classes. (Thanks Dr. Blick!!!)

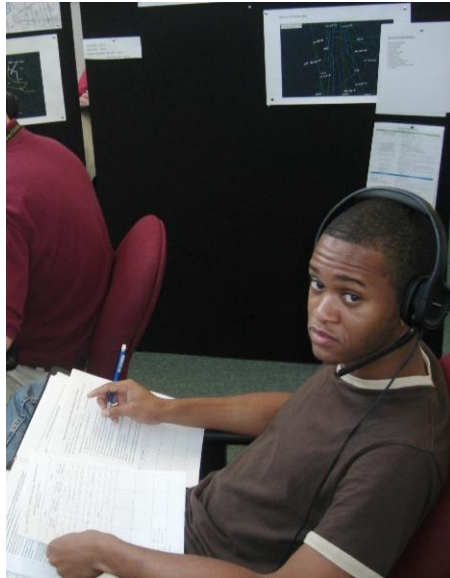
This summer has been an educational one and I feel it has prepared me for when I leave ERAU and begin my career in a Human Factors field.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Julian Archer

HF Undergraduate



**NextGen Test Bed Facility,
Daytona Beach International Airport**

When the 1st of July arrives, I would have been working at the NextGen Test facility for roughly three (3) weeks . Within this period, I was lucky to meet many fantastic people (people within the Pilot industry; the Air Traffic Controller Industry; FAA; MITRE; GE; MIT Lincoln Laboratories; and some of our very own at Embry-Riddle).

Essentially, the NextGen Test Bed is where some of the RTA and TMA procedures are initially being tested for the NextGen Air Transportation System.

My job as a human factors researcher was to observe various simulation scenarios and document pertinent performance information. I was also responsible for conducting follow-up interviews with the Pilot and Air Traffic Controller subjects. When I wasn't doing important work, I was responsible for minor set up, and making sure things (documents and equipment) were in place and ready to go.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Jolie Gascon

HF Undergraduate



Participating in Western Transportation Institute's Safe Passages Research Experience for Undergraduates (REU) Program at Montana State University

Correlating Risk Perception with High Risk Crash Sites - basically: my partner and I sit in the backseat of a tricked out Impala and observe driver behavior (driver = participant). The participant wears GSR (Galvanic Skin Response) electrodes which measure sweat and ECG (electrocardiogram) electrodes which measure heart beat variability. These electrodes are connected to our equipment in the backseat, including the laptop I use in the backseat to observe the ECG and GSR readings.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Abby Gaston

HF Graduate



The Boeing Company

I am designing and developing a temporary management system to gain consistency throughout the Auburn site.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Michael Weiss

HF Graduate



Summer Intern for MITRE Corporation

So, my official title is User Research Intern. So every year the division I work for does a massive research study on internal products for MITRE employees. So this year the study is on Corporate Communications and Knowledge Services, which is basically the people in charge of company news, internal advertising campaigns, etc. So basically I am in charge of the study. I have help from other co-workers, but I have most of the responsibilities. So, I have to recruit participants, perform the user interviews, perform some sort of an analysis of the results, and then create a final report and presentation. I am also working on a second project where I help perform usability studies on different internal software products, but that is just a side project so I only devote a couple hours a week to that.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Michael Geller

HF Graduate

**Army Research Laboratory,
Human Research and Engineering Directorate**

As an Engineering Psychologist, I work as a member of design teams applying experimental psychology, research methods, statistics, sensation, perception, cognition, information display anthropometry, and physiology, to the design and evaluation of military systems and equipment (both hardware and software); with the primary goal being to design systems that facilitate learning and are both easy and safe to use, maintain, and support. Proficient at the design & analysis of experiments, usability testing techniques and questionnaires. Experienced at writing MANPRINT sections in Requests for Proposals (RFPs) for defense contracts, and subsequently as an HFE evaluator on Source Selection Boards and during the preparation of requirements documents.

To design for ease of learning, use, maintenance, and support we work to improve system effectiveness by:

- Eliminating errors and difficulties involved with the human-system interface;
- Ensuring that the middle 90 percent of the target audience is able to operate, maintain and support the system;
- Ensuring the safety and health of the friendly personnel; and,
- Reducing the likelihood of physical and mental fatigue, unnecessary exposure, and human errors in identification or communication that might cause serious injury to friendly personnel or equipment damage.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Jennifer Godin

HF Graduate



**CHI Systems, Inc.
Human Systems Engineer**

At CHI I am currently working on the Tactical Ground Reporting (TIGR) system. I am responsible for testing the current and new releases of TIGR. I will then pass along my findings to the TIGR development team who will address all issues and perform maintenance to rectify all flaws as well as implement new enhancements. Another responsibility that I am also involved with is the Graphical User Interface (GUI) design of TIGR. I create useful designs for the TIGR system and put together a proposal for review. I am also responsible for the revisions and updates being made to the training documentation on almost a daily basis.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Frank Hannigan

HF Graduate



**Systems Engineer
Lockheed Martin**

As a Systems Engineer at Lockheed Martin - Global Training and Logistics, I am responsible for the development and maintenance of Engineering Control screens for the Navy's new Zumwalt Class Destroyer. Working closely with the Navy and a team of engineers we have developed over 1,000 requirements and designed more than 130 screens to make up the Engineering Control - Human Machine Interface.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Daniel Padilla

HF Graduate



**Human Factors Safety Manager
The Walt Disney Company/ Walt Disney Parks
and Resorts U.S**

As one of only 2 Human Factors engineers at Walt Disney World (and one of 3 worldwide) my “plate is full” in terms of the projects I’m involved with. One day I can be working with our designers & “Imagineers” in incorporating anthropometric design features into our fur characters, to working with engineers in designing or refurbishing attractions the next day. Many of my projects also have me involved with designing features into our parades and shows. A lot of these projects also have me involved with my engineer counterparts over at Disneyland Resort in California.

Every day it seems I’m blazing into some kind of new area that the field of human factors hasn’t touched on. I feel kind of like a “Human Factors Theme Park Pioneer”.

Working within the Safety Department at Walt Disney World I don’t just look at optimizing human performance and comfort, but I also look at how to make the environment safer for the Cast Members based on those aspects.

Thursday, July 29, 2010

HF Student Internships & Work Experiences

Dalila Giraldo

HF Graduate



User System Interaction Designer/Researcher and Professional Doctorate Candidate at Technical University, Eindhoven, The Netherlands

Support for the Industrial Design department of the university with projects related to User System Interaction. I am currently working on a three month project to conduct usability testing in the domain of medical visual analytics.

The User System Interaction program involves the following aspects:

- Focus on design – Students are positioned as designers throughout the program, that is, as intermediate between market demand and technical possibilities, between user needs and product satisfaction.
- Practical training – Students work in their second year on a project in industry or government supervised by university staff and the host organization.
- Focus on applicability – Students work on assignments and case studies throughout the program.
- Teamwork – Students with backgrounds in the engineering, behavioral and physical sciences work in small interdisciplinary teams.
- Cross-cultural and international orientation – Students with different national and cultural backgrounds work together.

Thursday, July 29, 2010

HF Graduate Student Wins Travel Award

Jenissa Garcia submitted a bio for a Student Travel Award and won a \$1000 to cover the travel expenses to the Lunar Science Forum at NASA Ames Research Center in California.



The conference will focus on :

- The nature and history of the Moon
- The effects of the lunar environment on human habitability
- Research applications of the lunar environment

Thursday, July 29, 2010

Did you know...

- The Human Factors & Ergonomics Society defines Human Factors as:
 - *Ergonomics (or human factors) is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data, and other methods to design in order to optimize human well-being and overall system performance.*

Source: <http://www.hfes.org/web/AboutHFES/about.html>