

14th CEN4010 Project Expo

Theme: Building Software Systems to Support STEM Activities

Thursday, August 1, 2013, 3 p.m. to 5 p.m., EE The Cube

Project Overviews

Project Name: NightOwl

NightOwl is a native mobile application that improves the current FAU NightOwl transportation system by creating a connection between students and staff to request pick-up and drop-off to their designated location through the use of GPS and web-based administration



I-r: Busra Demirci, Project Leader/UI & Graphic Design, Pierre-Michel Denis, Documentation & Network Communication, Jebin Shakya, Database Mgr. & Admin. Page Developer, Melissa Serrano, Research Documentation & UI Connection, Marlow Charite, Mobile App Developer, Keith Haizlett, Database Mgr. & Admin. Page Developer

database controls. After request, the NightOwl team is notified and the student receives a response on estimated arrival. The application ensures more accurate location reporting, efficient communication, and an opportunity for safer arrival when navigating around campus.

Project Name: Nutri-STEM

Nutri-STEM is a web application that will allow a STEM student to check if his or her diet is providing the right kinds of food to maintain high energy levels throughout the day in order to maintain alertness and concentration while in classes and



I-r: Javier Olaya, Graphic Designer; Evan Beardsley-Dodd, SW Developer; Anso Bernadel, Web Developer; Charlie Park, Project Leader; Daniel Fischesser, Graphic Designer; Christopher Fernandez, SW Developer; Gregory Fingulin, Web Developer

while studying during the day. The student will enter their age, weight, height, typical diet, and physical activity in a single day. The Nutri-STEM application will then calculate the caloric intake, the calories used, and the types of nutrients obtained from their diet and will make a recommendation based on those calculations and nutrients to the STEM student.

Project Name: Rescue Alert

Rescue Alert is an open source Android application that will provide the elderly and people with disabilities the ability to be independent. The user will be able to store selected contacts in the system. Using the phones



I-r: Greg Landosky, Documentation & Research, Sanjay Singh, Project Leader, Garritt Gala, Programmer, Sandy Tao, Project Vision & Design, Juan Larrazabal, Diagrams

accelerometer, the system will sense when a user has fallen. The system will start to Alarm and will send SMS messages to the contacts to alert them the user is in need of assistance. The user can deactivate the alarm and SMS alerts from the on-screen interface, in case of accidental alarm discharge. This system is developed to aid people who cannot always be watched over by a personal aid, which is cost effective and gives the user a sense of freedom.

Project Name: Fiose

Fiose is an advising tool that was created to simplify the task of the student as well as College advisors when registration for a future semester opens up during a term. This program is meant to eliminate the task of a student creating their own



I-r: Geoffrey Laleau (D.L.), Project Mgr., Karim Oudaoui (D.L.), Asst. Project Mgr., Daniel Alvarez, Database Mgr., Anthony Hugo, Design Architect, Georges Bernavil, SW Developer, Peterson Germain, System Documentation Admin., Juan Vicente (D.L.), System Specification Admin.

schedule by automatically generating one for them. The program will intelligently populate different options for schedules depending on student specified requirements and grades earned in courses. It will also allow the advisor to view any issues that may arise if student cannot enter a course. This project will help to improve the efficiency of discussion between the student and advisor and minimize time spent on semester scheduling.

Project Name: MGL

My Gym Log (MGL) is a web service that allows users to keep track of what they have done in the gym. The service targets dedicated individuals who want to document everything they have done each exercise, each set, to every rep. Our goal is to make it easily accessed and usable on mobile devices freeing the user from carrying around notebooks and pens so they can focus on carrying weight! Users can also go to the web page and review what they have done this week allowing them to see what they may have missed or need to focus more on.



I-r: Steven Odum , Graphic Designer, Ivelin Yuriev, Site Developer, Tim Broxson, Research & Documentation, Kevin Khieokum, Research & Development, Andrew Casals Project Lead & Coordinator

Project Name: Virtual Advising System

The Virtual Advising System (VAS) is a web based application which provides a comprehensive advising solution. For users who have not yet chosen a major, VAS provides a career guidance service to help select a degree which fits to the users interests and capabilities. This guidance is based on a built-in survey and also provides an estimated cost for the degree. For students already enrolled in college, VAS provides facilities to help them track the courses required for the chosen major. Students can enter which classes they have signed up for and which grade they have received. As students complete classes, VAS provides a visual status of the overall progress toward the degree.



I-r: Andy Michel, Project Mgr. & Technical Lead, Paul Baertlein, Database Admin., Danilo da Silva, UI Developer, Hernan Leon, Tech. Writer, Ashley Paddock, UI Developer, Robert Hofstetter Techn. Writer, Sean Eaton, UI Developer

Project Judges:

Jose Hurtado, Ph.D.

Anthony Marcus, Ph.D. Candidate

Project Name: Future Finders

Choosing a college and a career are two of the most important decisions a student can make during their lifetime. Future Finders, assists high school and college students make these tough decisions. Future Finders is an innovative website which contains a diagnostic STEM career test, a password-protected updatable student records database, an intelligent requirements-based college finder, and a real-time STEM employment locator to assist students with discovering the job of their dreams.



I-r: Mario Taccariello, Project Leader & SW Architect, Phillip Halpin, Lead Programmer & Logistician, Vincent Casilla, Website Design & Graphic Designer, Svetlana Cazorla, Database Mgr. & Statistician, Paul Lewis, Cryptography Researcher & Programmer, Steven Gann, Logo Designer & Graphic Designer. Not Pictured: Matthew Watson, Database Mgr. & Statistician

Project Name: EncodeMe

EncodeMe is a programming teaching assistant intended for those interested in learning. It designed to allow the user to simultaneously look at tutorials and compile and execute code in the same space. This is achieved through a backend compiler and will consume minimal resources from the host computer, allowing for use on low spec devices.



I-r: David Lindeamnn, Project Leader & Server-Side Programmer, Hedley Pierre, Web Designer, Jonathan Fresneda, Web Designer, Andre Oliver, Content Designer, Marco Cruz, Research



Course Instructor

Lofton A. Bullard, Ph.D.

Ph.D., Computer Science, Florida Atlantic University, Boca Raton, FL, 2008

M.S., Computer Science, Florida Atlantic University, Boca Raton, FL, 1996

M.S., Education, University of Miami, Miami, FL, 1991

B.S., Computer Science, Florida International University, Miami, FL, 1985

Florida Professional Educator's Certification

Specializing
in finding talent in
FAU students

The primary objective of this course is to introduce the student to core concepts in software engineering in an effort to prepare the student for industrial scale software systems development and the ability to work in software development teams.