



Employee Feedback Mobile App Project

This project will improve Afidence employee performance by creating a mobile application that facilitates the capture and reporting of employee feedback to the appropriate people on a timely basis. Afidence will replace the current employee performance review system with a mobile app that crowd-sources real-time feedback from the people that matter the most – coworkers, while also empowering management with better insights on organizational culture and training needs.

UD Senior Project Team – James Husted, Heidi Kazee, Hatoun Khojah, Martin Reynolds

Client Representative(s) – Barbara Hogan

Faculty Advisor – Steve Hall



Enterprise Application Dashboard Project

The UD team will create a dashboard, to guide leaders when making strategic company-wide decisions about enterprise applications. The project sponsor wants this dashboard to have the ability to “drill down” into the specific categories of the company, such as people, processes, tools, and information, to determine what specific areas need addressed. With conditional formatting, the dashboard can have the ability to assess the health of the areas with “Good, OK, and Bad”, so that leaders can understand the data and the state of the various areas very quickly. With the ability to see what areas of a company are not investing time or money correctly in their assets, the client can implement steps to correct key operational and strategic inter-company issues.

UD Senior Project Team – Ashwag Alammari, Philip Holowaty, Troy Kauffman, Leah Stuckey

Client Representative(s) – Roger Cass

Faculty Advisor – Art Santoianni



Internet of Things Proof of Concept Pilot Project

The UD team will be working on researching and creating different IoT healthcare technologies that will monitor home care workers and members for CareSource. The project will monitor and improve services provided by CareSource's home health agency, CareSource At Home. The current process utilizes a paper log signed off by the member that later becomes a part of a paper log audit. CareSource wants to test EVV (electronic visit verification) technology, a presence sensing technology with the potential to detect the presence and location of a care worker, in the member's home, and as well the proximity of the care worker to the member. CareSource intends to use Raspberry Pis to program sensors installed in members' houses; the UD team will be responsible for testing and assessing different sensors.

UD Senior Project Team – Charles Barrett, Taylor Ingram, Samantha Tobar
Client Representative(s) – Johan Botha
Faculty Advisor – Art Santoianni



IT Modernization Project

FYI's project is focused towards IT modernization to adapt to the most economical IT software solutions to become a more integrated, organized and collaborative non-profit organization. The UD team will migrate FYI's data into a cloud based server to improve communication as well as make documents more secure. The UD team will also work to increase the overall security of all the organization's IT systems. This conversion will allow for file management, document sharing, and data storage retention at a reduced cost as well as lower maintenance for the users.

UD Senior Project Team – Alexa Bryan, Rachael Kramb, Hillary Schaeffer, Jennifer Walsh
Client Representative(s) – Herman Karhoff
Faculty Advisor – Art Santoianni



Web-Enabled Business Processes Project

Imagery Solutions, LLC goal is to make crop health information more affordable for everyone, especially owners of large agricultural businesses. Not only will this provide more opportunities for Imagery Solutions, LLC, but it will save farmers money by letting them know where and when to properly allocate their products, water, and fertilizers. Our team will develop the website for customers to access images and information, create a repository for images and data the cameras collect, and research Geographical Information Systems and sensor technology to provide more insight and suggestions to Imagery Solutions, LLC.

UD Senior Project Team – Michael Coyne, Huiqin Li, Cecilia Ruffing
Client Representative(s) – David Russell
Faculty Advisor – Dave Salisbury



Disaster Recovery System Project

Midmark Corporation's data backup and restoration equipment is nearing the end of its useful life. Midmark currently uses an EMC solution for data recovery and they have the next generation system available as an option. Our job as a team is to help Midmark survey the market and find the best, cost effective solution for their next data backup system. The UD team is tasked with researching and presenting 3-4 viable options for this new disaster recovery system.

UD Senior Project Team – Matthew Bergant, Mark Wood, Sean Wynne, Dong Xiao
Client Representative(s) – Jeff Reed, Nicole Robbins
Faculty Advisor – Art Santoianni



Security Compliance Assessment Process Project

The University of Dayton Student Project Team is working with Riverside Research to assess compliance of its systems with NIST 800-171 standards for information security and to help create a strategy for risk mitigation and compliance with respect to these systems.

UD Senior Project Team – Jack Fullenkamp, Mary Lantz, Kyle Wedoff
Client Representative(s) – Rusty Baldwin
Faculty Advisor – Dave Salisbury



POS Integration Project

Ross Group's end goal with this project is to assess the feasibility and requirements of integrating an open-source POS systems with their MemberzPlus system to update customers in real time, while maintaining the look and feel of their current MemberzPlus database system. Usability and trainability of the software are important constraints; it is important that the new system can be readily adopted by all users.

UD Senior Project Team – Iadan Hamor, Kyle Massie, Seth Meyer
Client Representative(s) – Michael Ulliman
Faculty Advisor – Steve Hall



Online Customer Manual Catalog

The UD team will build a portal for customers to obtain their pump manuals online. This allows them immediate access to the manuals without having to find a contact within Seepex to send out a paper copy. Each customer will be given a pin and must supply additional authentication to access their manuals. Specifications are already mostly developed, however, these need finalized, developed, and implemented.

UD Senior Project Team – Maura Dempsey, Trey Herman, Hanouf Khojah, Graham Peters

Client Representative(s) – Mike Brooks

Faculty Advisor – Dave Salisbury



Intranet Enhancement and Adoption Project

Taft Law currently has an intranet in place, but are looking to create a more engaging online environment for employees. Taft has expressed an interest in Microsoft tools such as Delve and O365, but will depend on the UD team for assistance in assessing potential tools. The team will perform our research in consultation with the client to identify and implement a more effective and interactive intranet for Taft Law.

UD Senior Project Team – Charles Deeds, Mary Kenney, Katherine Leone

Client Representative(s) – Chris Barnoski, Jerry Perry

Faculty Advisor – Dave Salisbury



Employee Onboarding System Project

Triad has asked the UD team to design a HR module that helps with the onboarding of new employees without taking away the “people feel”. Ideally, this new system will automate workflows within the company intranet in order to alleviate stress for both managers and new employees by improving the onboarding process. The module will feature training components, mechanisms for employees and managers to give and receive feedback, access to benefit plans, and a mentoring component.

UD Senior Project Team – Nina Butler, Ryan Byrne, Qihan Hu

Client Representative(s) – Terry Naughton

Faculty Advisor – Dave Salisbury



Campus Directory System Project

The University of Dayton IT department has asked us to assist them in the creation of a full-fledged, university wide online (web based) campus directory. This new directory is to keep track of all active professors, students, faculty, and staff. A hierarchy will be included that allows users to search for a department and see what professors are in it, as well as search professors and see what department they are in. Our job is to provide recommendations for the best solution to centralize all of the current data and create a back end structure.

UD Senior Project Team - Mark Beletti, Mandy Marchant, Kenison Ready, Mike Schamel

Client Representative(s) –David Bauer, Janet Morgan

Faculty Advisor – Steve Hall