Center for Engineering Design & Entrepreneurship Design Exposition Day Brochure Program Paragraph and Team Photo information form.

Project Number: CPSC 4

Project Title: Credential Security API with Facial Recognition

Sponsor: n/a

Liaison (s): Chris Sharman

Faculty Advisor: Dr. Nadra Guizani

Student Names (Please list names in order students appear in photograph):

(from left to right)

Elijah Michaelson, Brian Mackessy, Sebastian Vargas

Summary Paragraph: (150 words or less) Should be written as though your project is completed because the brochure will be distributed on May 2nd at Design Expo Day. Keep the language basic, not too technical. Write about what your goal was and what you have accomplished this year. This Project Summary will also be used on the Engineering website with your photo.

Currently, most websites use a combination of username and password to give their users access to their accounts. However, this method is prone to security issues since many users use duplicate passwords and/or common phrases for passwords. Our solution to this problem is that we are developing an API for web developers to implement a facial recognition log-in system for their website.

We accomplished this by having using JavaScript for the front end while using Flask to run the facial recognition and classification for the back end, and we implemented various processing algorithms in addition to our facial recognition classifiers to help us accomplish our goal.

Finally, after receiving initial feedback on our work, we had another senior design group implement our API into their website for their users to improve the security of their personal accounts.

Please save the summary with your team number, as in “ENSC 17 Team Summary” and email it to bachmanh@gonzaga.edu as a pdf. Photo: Send a High Resolution photo of your entire team. Image must be Horizontal format (Landscape)! You can include your faculty advisor or not. It is great to see you on location if possible or doing something for the project. If you are going to ‘stage’ a photo of just your team, please try to get a close up of your faces. Please make certain that it is labeled with your team number as in “ENSC 22 Team Photo” and email it to bachmanh@gonzaga.edu as a pdf. If you would like Toni Boggan to take a photo of your team, please email boggan@gonzaga.edu or stop by Paccar 214! DEADLINE for summary: Friday, March 2 by 4pm!