



## **I-SENSE Announces Internal Student Awards**

Boca Raton, Fla. (April 19, 2018) – Through the Division of Research, I-SENSE recently launched a funding program to support collaborative student research projects. We sought proposals from student teams to engage in multidisciplinary efforts that have the potential for significant societal impact.

The most important outcome of a successful proposed project in this competition was a well-documented application, system or device prototype that has the potential to significantly benefit society. Successful teams were awarded funds for materials, supplies, software license and other services to support their projects. The awardees will conduct their projects in the Sensing and Smart Systems Innovation Laboratory, with access to all available facilities. Mentoring and engineering support is also being provided through I-SENSE. Congratulations to all of the awardees!

### ***Scan2Make: Evaluation of the Efficacy of Custom Fit in FDM Prosthetic Devices through Use of Portable Scanning Technology***

**Team members:** Willard Bachli, Roberto Sanchez, Michael Padron, Charles Perry Weinthal, Leonardo Rivas and Antwan Hoyte

Funding amount: \$1,650

Description: This project will investigate the ability to design a custom-fit prosthetic device, made for users with an acquired or congenital amputation by using portable 3-D scanning technology and computer-aided design.

### ***GeoReferenced Augmented Reality Utilities App (GARUA)***

**Team members:** Jason Blakenship and Debojit Biswas

Funding amount: \$1,499

Description: The GeoReferenced Augmented Reality Utilities App (GARUA) will allow users to identify the location of underground utility lines by simply using a smartphone or tablet.

### ***EEG-Based Emotional State Classification of Passengers in an Autonomous Vehicle Stimulator***

**Team members:** Corey Park and Shervin Shahrदार

Funding amount: \$1,484

Description: In this experimental study, the team members will evaluate real-time self-driving cars (SDC) passenger emotional responses through electroencephalography analysis of passengers in a SDC stimulator.

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***SAE Drive Optimization System***

**Team members:** Richard Nelson, Tais Kraljevic, Jhairus Lewis and Brandon Nava

Funding amount: \$1,025

Summary: By researching, designing, and constructing a system to collect data and trigger outputs using various sensors (including accelerometers, potentiometers, and other sensors), the team aims to fine-tune the design and build of their electric vehicle.