WristAssist
Forty percent of adolescents between the ages of 13 and 18 are diagnosed with some form of anxiety. WristAssist is an end-to-end solution that allows a parent or guardian to remotely monitor and track the progress their child makes in dealing with their anxiety, while using the self-coping treatment provided by the smart watch app.

N.O.V.A.
Set up a laboratory simulation testbed and train machine learning models for two autonomous vehicles and signalized intersections.

MOO
Model for Overtime Optimization
Work with a local company to develop an Excel-based Overtime Optimization tool to calculate optimal workforce levels. Extend the model to other companies using simulated data.

SPARTA
Smart Physical Therapy Anywhere
Develop SPARTA, an interactive game to guide patients through their therapy exercises and a portal to connect physicians and patients by utilizing the Xbox Kinect and Unity.

Ad-Onn
Develop Ad-Onn, a dynamic location-based smart advertising platform for local organizations and small businesses to enable local businesses to grow with direct consumer and community access.

Hydrostacks
Develop an autonomous Duckweed Harvester to optimize and control the growth of duckweed by creating a modular rack system that controls water parameters and lighting.

RU ParkPal
To develop an app to help drivers to locate empty spots in a parking lot in real time. The app uses image data from cameras installed at parking lots and directs drivers to the locations.

Revolutionizing Packaging
In partnership with Louis Vuitton, optimize the packaging marrying process and conduct quality analysis to determine the most sustainable and financially viable replacement for traditional cardboard packaging.
Meshape
Meshape is an open-sourced, affordable 3D body scanning station to substitute expensive commercial scanners. The station is easily assembled and provides a 3D model of human objects along with capabilities to measure features that are needed for such applications as tailoring.

Fresh Locker
Develop a sealed box technology with ethylene absorber and ventilation system to monitor and sustain and prevent fresh fruit ripening.

TexID
TexID, a textile characterization software tool using microscopic images, features technology that can be used in forensic and industrial laundry applications.

ROBERT
ROBotic Expense ReporTing
ROBERT is a process automation platform for travel expense reporting for organizations with a user interface that runs from a smartphone app.

Chome
CHOME is an automated system that interacts with cats for feeding, watering and cleaning excretion. It comes with a website for the cat owners to monitor a cat’s food and water consumption.

GroPro
GroPro is a consumer-focused web app that aims to improve a shopper’s overall experience in grocery stores. Using crowdsourced store data, users save time and money by optimizing their paths through the aisles. Shoppers are also warned against potential impulse purchases to cultivate good shopping habits.

Wayvz
Develop a 3D printing process to manufacture shoes from recycled plastic materials.

SmartLift
About 80% of adults experience a back injury in their lifetime with roughly 10% suffering a re-injury. SmartLift is developed to prevent injury before users exercise. It prevents back injuries one lift at a time.