BCI Controlled Electric Wheelchair
Brain-computer interface (BCI) based system to control an electric wheelchair thoughts and facial expressions.

Team Members: Philip Huynh & Carl Maclean

BPSK and Chirp Receiver for Wideband Communications
The receiver, implemented on a high performance computing (HPC) platform, extracts data from BPSK and Chirp signals with unknown carrier frequencies and phases. [Mercury Defense Sponsored Project]

Team Members: Dylon Mutz & Jeffrey Speer

Motorcycle Anti-Theft System
The anti-theft system for motorcycles notifies a user via cellphone of any suspicious movement of their vehicle.

Team Members: Christopher Garcia, Garrett Kinum & Ivan Roman

Automated Burger Machine
Machine prepares customized gourmet burgers via an app on a smartphone.

Team Members: Andres Fernandez & Ryan Cisneros

Air Screen with Gestural Interface
Projection technology interfaced with gestures and pinpoint touchscreen interactivity that allows for images and video to be projected onto a screen of dry fog.

Team Members: Andy Phan, Charles Guzman & Roel Barroga

Automating Weld Inspection Maintenance System
System sits on the roller coaster track and moves between the track’s metal cross ties, taking pictures of the weld spots. [Disney Sponsored Project]

Team Members: Miguel Sosa, Miguel Uc & Devin Waltman

Tuffy Cart – Self-Driving Golf-Cart
Tuffy Cart follows specified routes using GPS and Mission Planner software to assist anyone in need of easier transportation around campus.

Team Members: James Banh, Chris Painter, Martin Rodriguez, Taner Scott Stevie Baltazar & Patrick Rohloff