

Senior Design Proposal

P.A.L.M.

Personal Automated Lawn Mower

5/17/2021 Project Progress Update

BRIAN DARLING AND GABRIEL DE LA TORRE

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[HTTPS://PALMMOWER.COM/](https://palmmower.com/)

Fully Automated Lawn Mower Docking Station Development

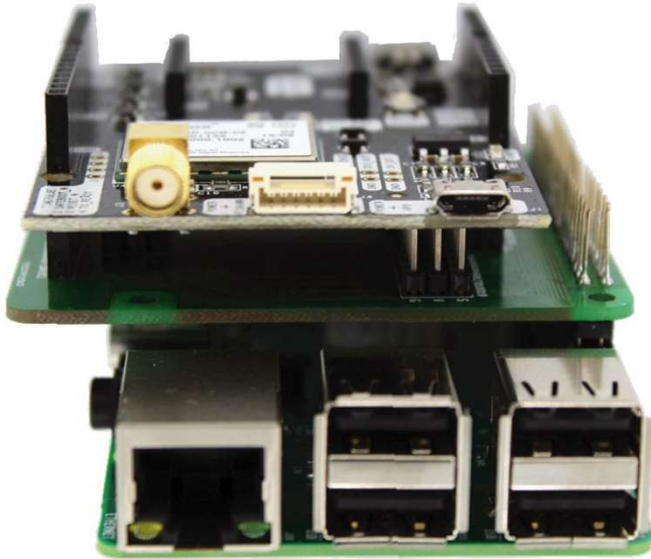


Created docking station for stationary RTK unit and power system.

- 12.5" tall and 15.5" wide
- 10W Polycrystalline Solar Panel at 28 deg
- Stores all electronics
- Will be made rain resistant after testing

Fully Automated Lawn Mower

RTK integration Research



- Tested functionality of both rtk boards
- Downloaded and installed ucenter software which is used to control the rtk
- Tested accuracy in an indoor environment using a single rtk
- Accuracy was impressive and was able to follow the shape the antenna was tracing pretty accurately.
- Expect higher levels of accuracy when using two boards in a base/rover configuration.
- Further testing and coding will be done to get the two rtk's communicating with each other.

Fully Automated Lawn Mower

RTK integration Research

