

# Senior Design Proposal

P.A.L.M.

Personal Automated Lawn Mower

**5/24/2021 Project Progress Update**

---

BRIAN DARLING AND GABRIEL DE LA TORRE

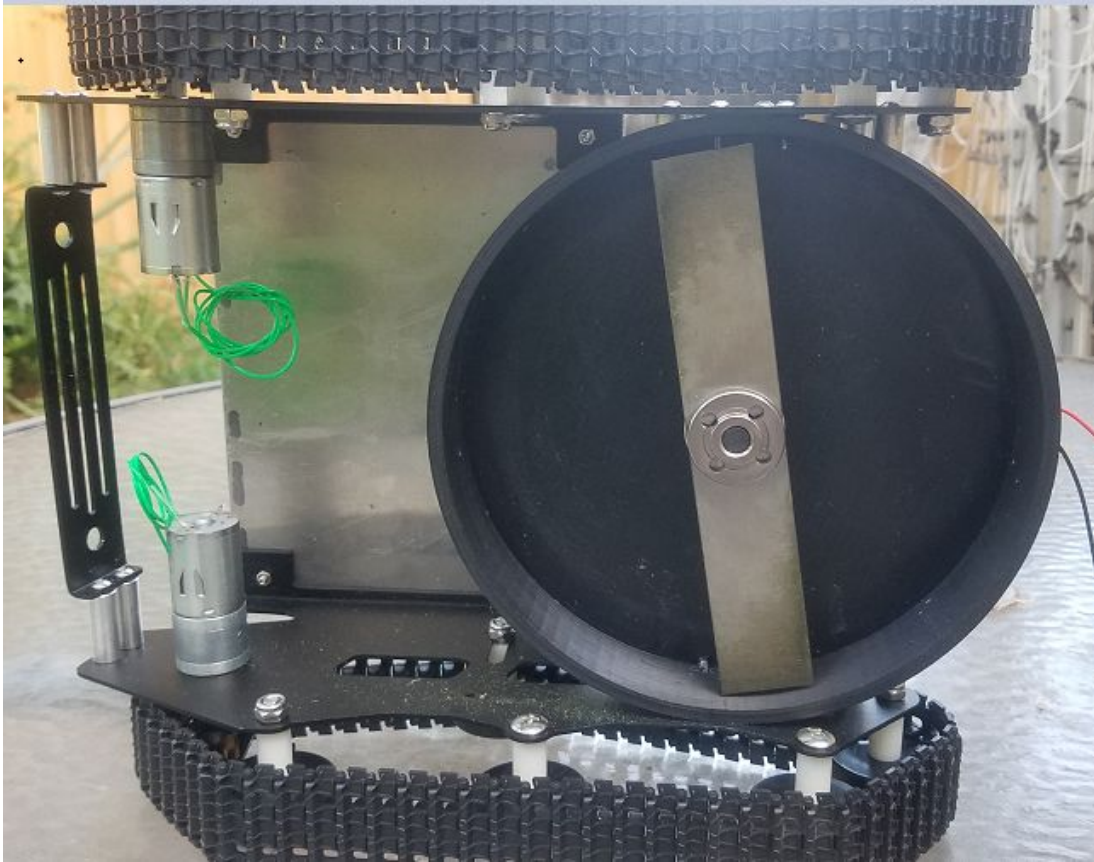
SUMMER 2021

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

# Fully Automated Lawn Mower

## Shroud Installation

---



Installed cutter blade shroud

- Had to make minor modifications to the top of the shroud to fit
- Lowered the cutting blade by using a washer
- Cutting Blade will benefit from being balanced

# Fully Automated Lawn Mower

## Electronics enclosure

---



- Made with Plexiglass
- Dimensions are 8" x 8" x 2"
- Water tight design
- Will be secured to the top of the mower with screws and standoffs.

# Fully Automated Lawn Mower

## Movement Control

---



- The mower currently has 5 movement settings, forward, back, turn left in place, turn right in place, and stop.
- The mower turns in place to allow for accurate navigation of cutting paths during operation.
- The mower was manually controlled by keyboard inputs, which will be converted to controller inputs.
- Once the RTK system is fully implemented, the mower will have both the manual steering mode and the automatic steering mode.