The AgGrowBot shapes the future of autonomous weed removal by providing students with hands-on experiences designing an environmentally friendly semi-autonomous device.

**List of Features**
- John Deere 4240 Display
- Rapid ATU Bracket Design
- John Starfire 6000 Display, 600 ft Range Kill Switch
- Variable Speed Cruise Control
- Onboard Weed Identification
- Weed Eradication by Chemical Application/Robotics
- Shaping The Future Of Autonomous Weed Removal

**Value Proposition**
- Reduces chemical use and compaction, creating a more sustainable agriculture environment

**Team**
- Zachary Adams
- Jesse Kolb
- Drew Kelham

**Sponsors**
- Roger Tormoehlen
- Richard Fox

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Problem

AgGrowBot needs to operate autonomously.

Potential Solutions

- Use John Deere receiver & monitor
- Use another technology, such as Raven
- Develop steel steering bracket
- Speed control & kill switch for control & safety

Customer

Small Farmers
Specialty Farmers/Researchers

Technical Data

Within 3 inch accuracy

Competitive Advantage

Semi-autonomous Multi-use Machine
Identify Weeds & Plants
Low Compaction
No Driver Needed
Lightweight

SummarY

As shown in the image below

AgGrowBot can move semi-autonomously while identifying and spraying weeds.

AgGrowBot needs to operate autonomously.

AgGrowBot can move semi-autonomously within 3 inch accuracy.