

# GroundsBot:Autonomous Golf Course Maintenance

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# 1 Project Description

GroundsBot

## 1.1 Functional Requirements

M.P1	Req 1	My First Requirement
D.P1	Req 2	My Second Requirement

## 1.2 Non-Functional Requirements

## 1.3 Performance Requirements

# 2 Use Case

# 3 System Level Requirements

Objective Tree Work with existing operations Minimal installation effort Operate with minimal intervention Allow for machine maintenance

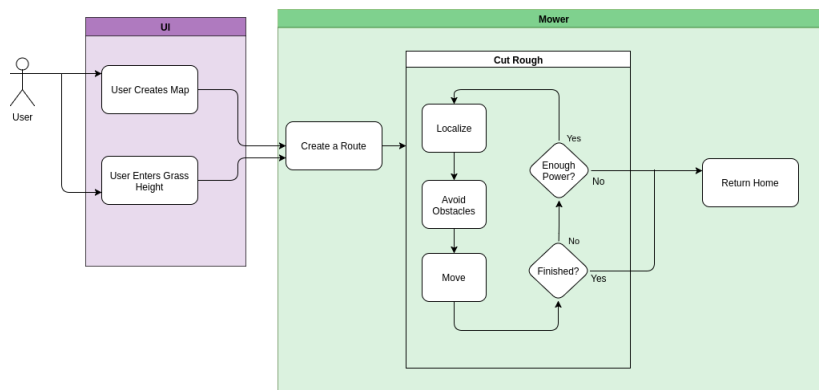
Upholds golf course standards Operates safely Reflects golfing aesthetics Low impact on golfers

Reduce net rough maintenance cost Reduce manual labor Reduce ammmor-tized cost per acre

## 3.1 Chassis and Drivetrain

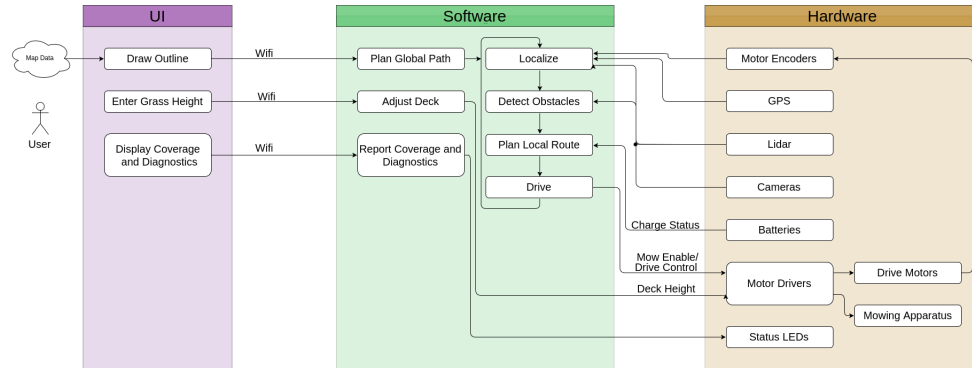
## 3.2 Sensor Suite

# 4 Functional Architecture



## 5 System Level Trade Studies

## 6 Cyberphysical Architecture



## 7 Subsystem Descriptions

## 8 Project Management

## 9 References