

Period One – Project Plan

Goals and Tasks for Botball 2019

Game Goals and Tasks

- 2019-02-18: Build practice arena
 - 2019-01-28: Buy all essential items (tape, PVC, corrugated plastic)
 - 2019-01-28: Cut all PVC pieces
 - 2019-01-28: Assemble arena PVC frame
 - 2019-01-30: Cut corrugated plastic and glue buildings
 - 2019-02-18: Finish taping the tape
 - 2019-02-18: Finish arena
- 2019-03-11: Develop strategy
 - 2019-01-20: Brainstorm rough strategy and task division
 - 2019-03-11: Fine tune and finish strategy
- 2019-03-25: Enforce game rules
 - 2019-02-19: Read all rules and try to memorize them
 - 2019-03-25: Check if both robots comply with the rules

Robot Buildings Goals and Tasks

- 2019-03-25: Small robot construction
 - 2019-03-04: Find suitable wheel configuration for optimal mobility
 - 2019-03-11: Build first version of “Water” grabbing device
 - 2019-03-25: Refine all components until optimal
- 2019-04-01: Create robot construction
 - 2019-03-04: Finish collection cage
 - 2019-03-18: Finish retractable arm and methods for rescuing the lower citizens
 - 2019-04-01: Finish methods to rescue the top citizens and maybe the botguy and / or the mayor
- 2019-04-01: Stable construction and behavior
 - 2019-03-25: Have prototypes of all parts
 - 2019-04-01: Reinforce parts

Programming Goals and Tasks

- 2019-03-03: Be able to move precisely
 - 2019-02-28: Write program to tune the motor speeds
 - 2019-03-02: Have tuned motors
 - 2019-03-03: Write movement functions in go
- 2019-04-01: Write code for the small robot in the Go programming language
 - 2019-02-11: Port the c wallaby library to Go
 - 2019-03-11: Rough movement prototype
 - 2019-04-01: Write game movement routine for small robot in Go
- 2019-04-01: Write code for Create robot in C
 - 2019-03-03: Figure out how to turn precisely
 - 2019-03-11: Rough movement prototype
 - 2019-04-01: Finish movement routine

Documentation Goals and Tasks

- 2019-02-20: First period documentation
 - 2019-02-18: Completely forget about the submission

All dates are formatted according to ISO 8601

- 2019-02-19: Don't plan anything. Team leader decides everything as he writes the Project Plan.
Write 75%
- 2019-02-20: Finish the last 25%
- 2019-03-19: Second period documentation
 - 2019-02-25: Decide who writes the Mechanical and Code Review document
 - 2019-03-03: Author writes as much as he can / knows
 - 2019-03-04: Author talks to other team members during the meeting to gather information
 - 2019-03-19: Author finishes the document
- 2019-04-04: Third period documentation
 - 2019-03-11: Pick a team member to write the Lessons Learned and Survey document
 - 2019-03-24: Authors writes as much as he can / knows
 - 2019-03-25: Author talks to other team me members during the meeting to gather information
 - 2019-04-04: Author finishes the document

Schedule Conflicts

- 2019-02-04 – 2019-02-09: Holiday; Semester break -> Cannot meet
- 2019-02-25: Interruption; Doctor appointment -> Team leader cannot show up
- 2019-03-25 – 2019-04-12: Interruption; Testing season begin -> Some team members may have to study

Team Organization

Schedule of Meeting Times

2019-18-01: Botball Bootcamp

2019-04-08 – 2019-04-12: Botball Tournament

Meeting every Monday from 16:15 to 18:40

[illegible]

Task Sharing

Team Supervisor: Hammerl Walter

Team Leader: Wendelin Muth

Small Robot Team:

Lukas Marx – Building

Wendelin Muth – Building and programming

Create Robot Team:

Maximilian Mayrhofer – Building and programming

Christina Hahn – Building

Documentation: Everyone / Mixed

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Conflict Resolution

1. Wait for the conflict to settle by itself
2. Team leader steps in and says what to do