

# ENPH 253: *El Buscador Del Oro*

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# Introduction

- ▶ Challenge Objective
- ▶ Challenge Surface
- ▶ Overview of Robot
  - ▶ Chassis and Drive System
  - ▶ Idol Retrieval System (I.R.S.)
  - ▶ Telescoping Return Mechanism (T.R.M.)
  - ▶ Electrical Components
  - ▶ Software Design

# Challenge Objective

- ▶ Tape Follow
- ▶ Collect Artifacts
- ▶ Detect and Follow IR
- ▶ Return to Start with Artifacts and Golden Idol

# Challenge Surface Flythrough

3D Model Goes Here

3D Model Goes Here and Talk about Design Strategy

# Chassis and Drive System

- ▶ Gearbox and Motors
- ▶ Wheels and Sleds
- ▶ Suspension

# Idol Retrieval System (I.R.S.)

- ▶ Collector Arm
- ▶ Sweeper Arm
- ▶ Basket and Conveyor Belt

# Telescoping Return Mechanism (T.R.M.)

- ▶ Telescoping Arms
- ▶ Winch
- ▶ Rubber Bands
- ▶ Release System
- ▶ Zipline Wheel

# Electrical Components

- ▶ H-Bridge Circuit
- ▶ Infrared Detection Circuit
- ▶ Reflective Object Sensors (QRDs)
- ▶ Ultrasound Sensor

# Software Design

- ▶ Tests
- ▶ Saving Data
- ▶ TINAH Menu System

# Conclusion

- ▶ Favourite Parts
- ▶ Summary

- ▶ This one is always shown
- ▶ The first time (i.e. as soon as the slide loads)
- ▶ Also the first time This one is shown at the first time, but it will hide soon (on the next event after the slide loads).

- ▶ This one is always shown
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- ▶ The second time
- ▶ Also the first time

# Some background

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- ▶ The truths of arithmetic which are independent of PA in some sense themselves 'contain essentially **hidden higher-order**, or infinitary, concepts' ???
- ▶ 'Truths in the language of arithmetic which ...
- ▶ That suggests stronger version of Isaacson's thesis.

# Example of columns 1

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into two lines

## Example of columns 2

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This is important information

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This is an Example block

This is an example

## Our Robot