

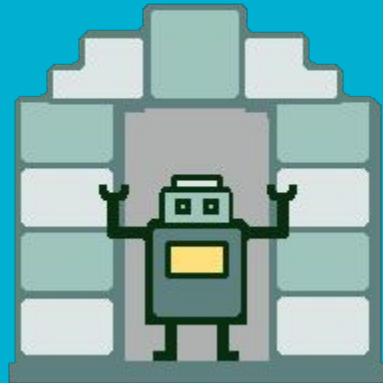
# Robot Assisted Tours

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# Our Client

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- Dr. Michael Leverington
- Who is he?
  - Computer Science lecturer at NAU



# Project Overview

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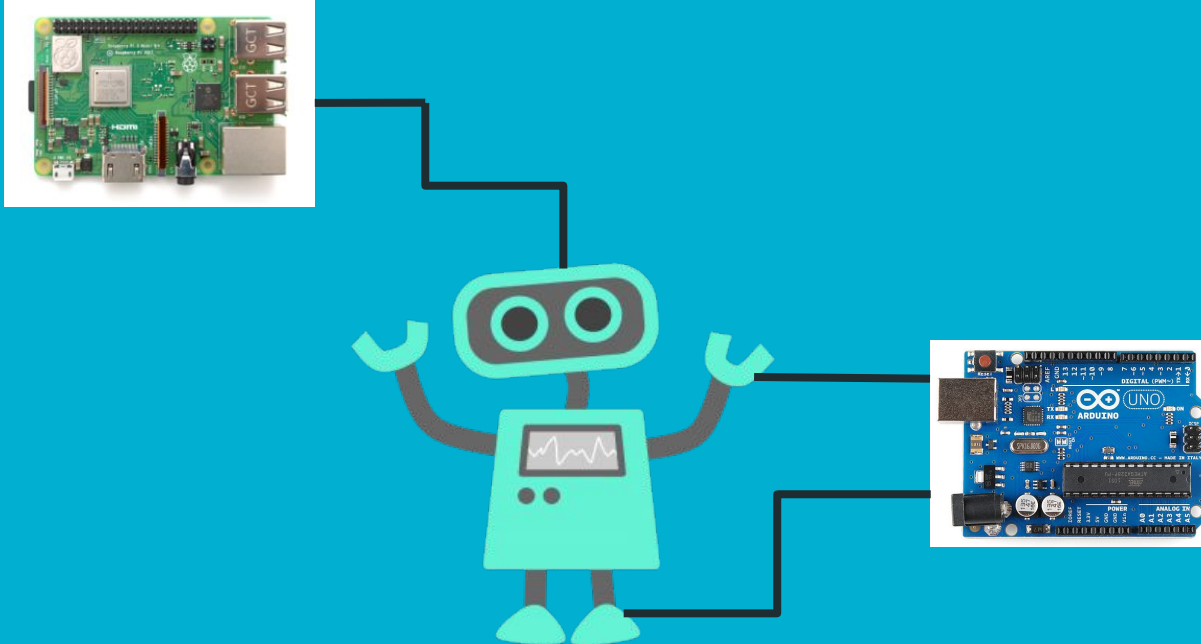
- Goal: To turn this plastic barrel into a functioning robot
  - Autonomous tours of the NAU Engineering building
- The problems to be addressed:
  - Parts → Construction
  - Movement → Navigation



# Solution Outline

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- Robot controlled by several microcontrollers



# Plan for Development

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- Code 'roadmap' - What input will cause what output? How will it be structured?
- How will the mechanical pieces fit together? How will they affect one another?
- How will the software components blend with the hardware?



# Project Future

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- Potential as a basis for future NAU student projects:
  - Increased autonomy
  - Voice or gesture commands
  - Additional hardware - arms, sensors, new devices for user input

