

Automatic Control

LET085 Project



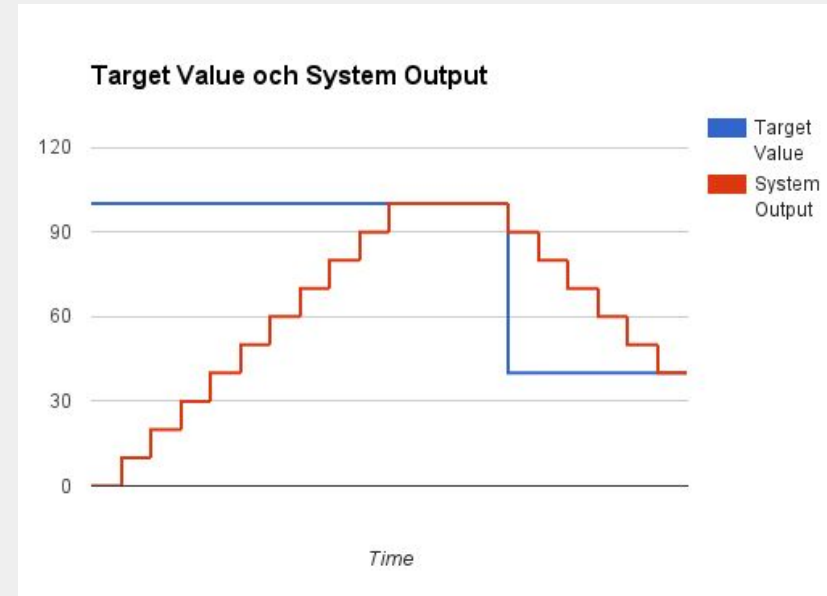
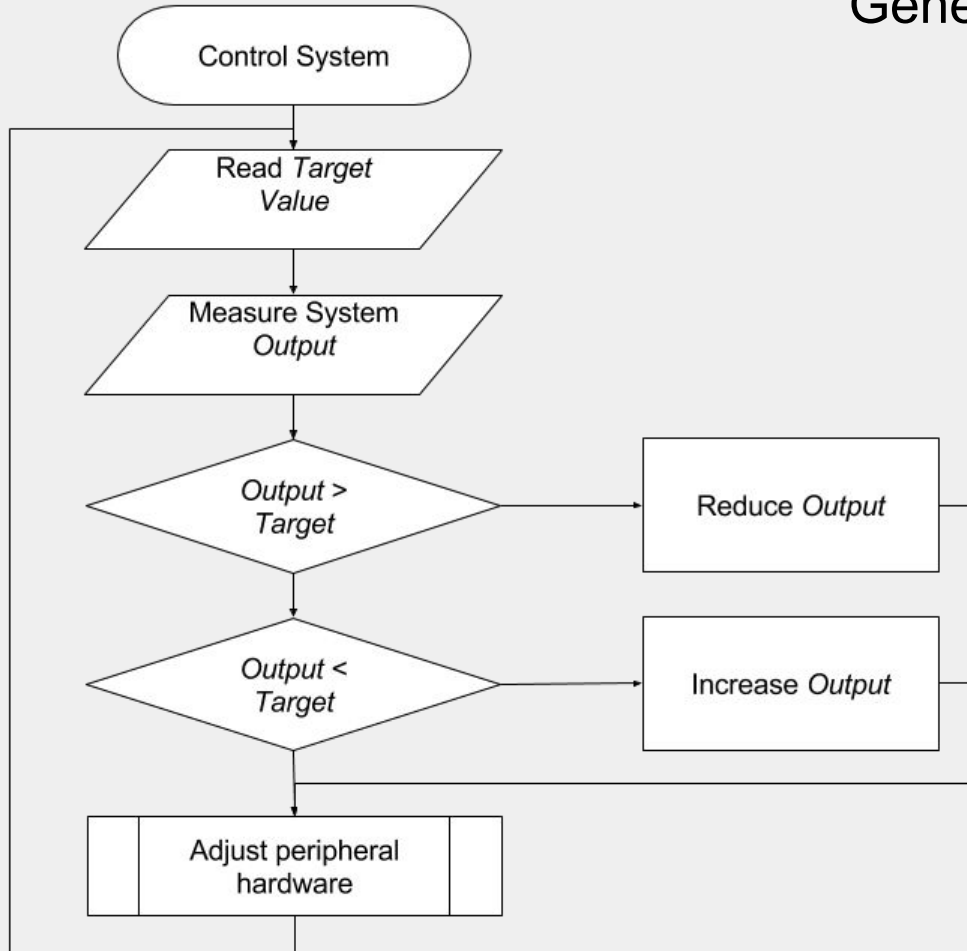
Andreas Johansson

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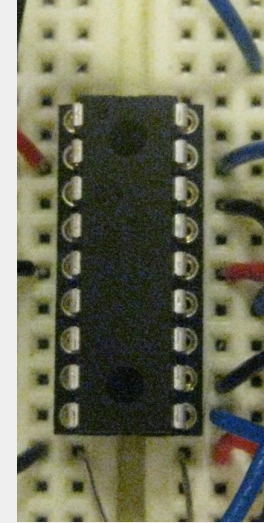
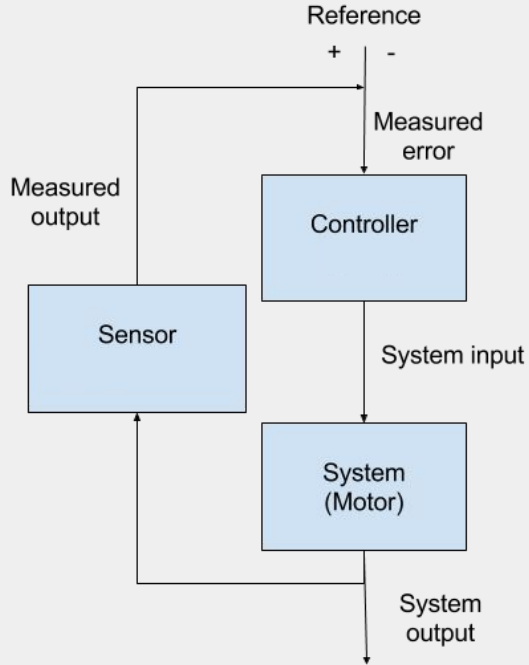
Outline

- Overview
- Implementation
- Results

General Overview



Implementation



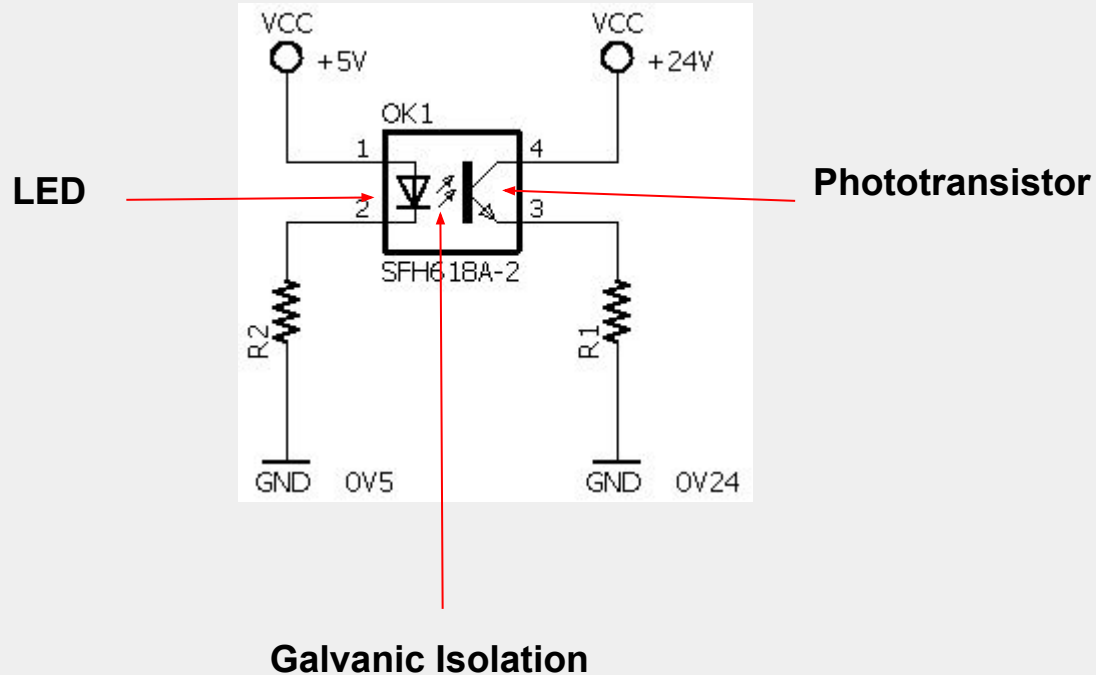
Programmable Logic Controller

- Common in heavy industry
- Electrically & physically robust
- Uses specialized programming languages

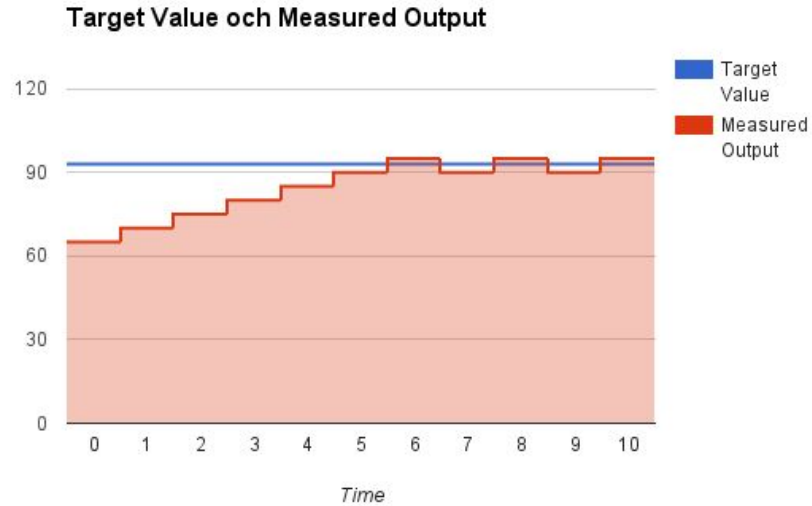
PIC16F1827 microcontroller

- Mass produced
- Electrically vulnerable
- Compatible with common programming languages

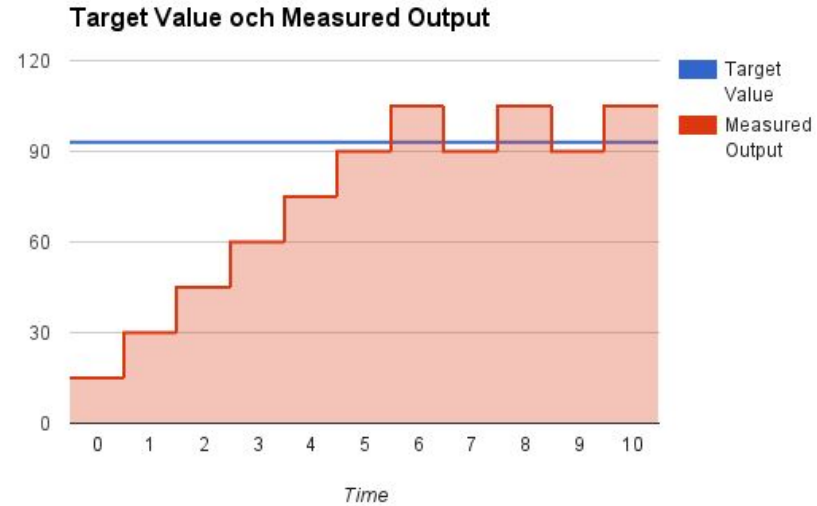
Obstacles



Problems Encountered



Accurate but slow



Fast but innaccurate
Large oscillation around target

Results

- Responsiveness vs. accuracy
- Loose specifications = unclear requirements

Fin

Questions?