

AVR Multi Motor Control

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Dedicated to my family, my granddad Pietro, my mom Anna Rosa, my dad Marco, my grandmom Pierina and my sister Valentina, which I thank everyday for everything I am.

To my dearest friends in Pitigliano, with whom I share some of the most beautiful $memories\ I$ have.

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Abstract

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Introduction

Client-side user interaction

- 2.1 Overview
- 2.2 Resources used
- 2.3 User Interface
- 2.4 Serial module
- 2.5 Man page

Master controller

- 3.1 Overview
- 3.2 MicroController Unit
- 3.3 Resources used
- 3.4 Wiring
- 3.5 Power management
- 3.6 I2C setup

Slave controllers

- 4.1 Overview
- 4.2 MicroController Unit
- 4.3 Resources used
- 4.4 Wiring
- 4.5 Power management
- 4.6 I2C setup

Client-Master communication

Master-Slave communication

Conclusions