

Light Tracker

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Note that this is a draft version and not the final version for publication.

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Chapter 1

Introduction

The light tracker was conceived as a way to test a 3-D printed pan and tilt platform.

Chapter 2

Hardware

2.1 Electronics

2.1.1 Micro-controller Requirements

There are four photo-transistors light sensors, thus 4 analog inputs are required. Each stepper motor requires 4 digital output lines. For the two steppers, a total of 8 outputs are required. Should limit switches be added, a few digital inputs will also be required.

2.2 Mechanical

Chapter 3

Software