Telescope Interface Module

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INTRODUCTION

This proposal provides a detailed plan on producing a replacement for a telescope command box (system) that serves as an interface between a computer and the telescope controls. The present design is prone to failure and is no longer made by the manufacturer. Thus, a replacement system and documentation is needed or the telescope can no longer be remotely controlled. The replacement telescope control system will aim to be low- cost, easy to install, and easy to reproduce and fabricate.

PICTURES OF THE TELESCOPE

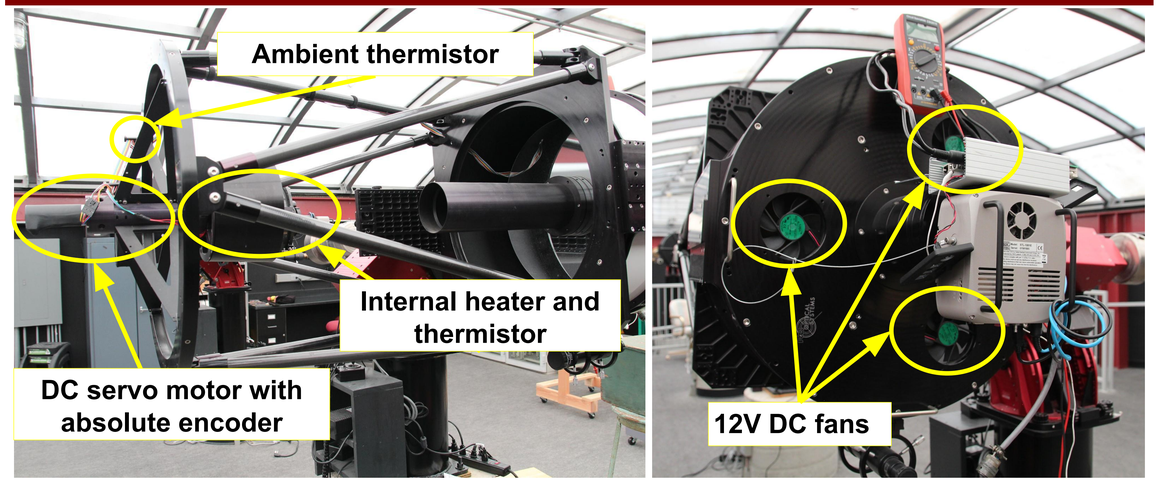

Figure 1: (a) shows the front of the telescope, (b) shows the back of the telescope.

BUDGET

Budget	
Item	**Cost**
Hardware	$300.00
PCB fabrication	$300.00
Labor	$10,000.00

Budget: $200 for all hardware components used on the test load board. An estimate of $100 for the prototype board, and an additional $300 for the final PCB board. $6200 for labor costs. $3800 for estimated future labor costs before the project is finished. Total budget: ~$10600.

FUNCTIONAL ARCHITECTURE MODEL

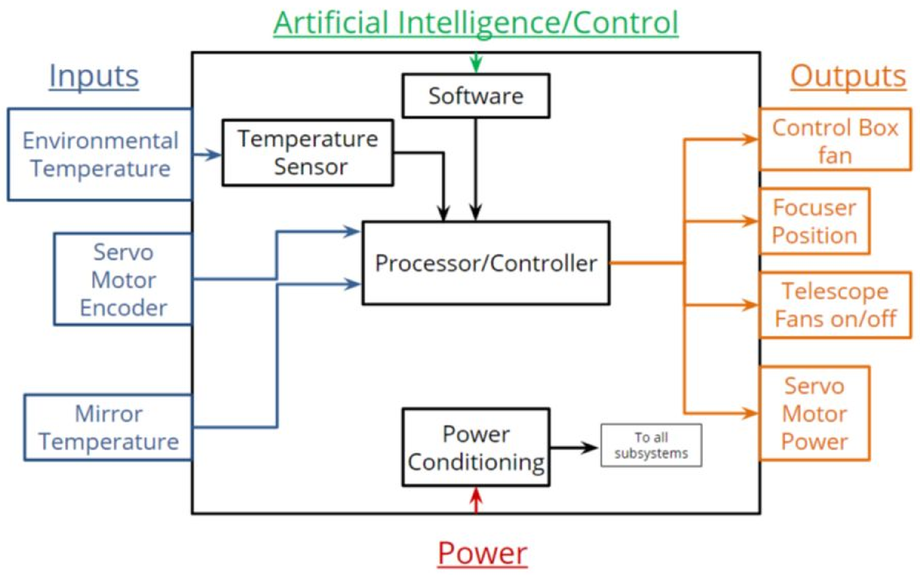

Figure 2: Functional architecture for the T.I.M. with necessary constraints and requirements.

This model is a visual representation of the internal function of the replacement device. It shows the general subsystems that will need to be taken into account to satisfy the requirements set out by the client.

Implementation