## Mechatronics 3700 Death Star Tracker: Technical Manual

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November 2, 2014

#### Abstract

This document describes how each of the modules (including both software and hardware) work, and how to use them.

# Part I Technical Documentation

#### Chapter 1

#### Introduction

- 1.1 Document Identification
- 1.2 System Overview
- 1.3 Document Overview
- 1.4 Reference Documents
- 1.4.1 Acronyms and Abbreviations

#### Chapter 2

#### System Description

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- 2.2 Operational Scenarios
- 2.3 System Requirements
- 2.4 Module Design
- 2.5 Module Requirements: Module X
- 2.5.1 Functional Requirements

Inputs

Processes

Outputs

**Timing** 

Failure Modes

2.5.2 Non-Functional (Quality of Service) Requirements

Performance

Interfaces

**Design Constraints** 

- 2.6 Conceptual Design: Module X
- 2.6.1 Assumptions Made
- 2.6.2 Constraints on Module X Performance

#### Chapter 3

### User Interface Design

- 3.1 Classes of User
- 3.2 Interface Design: User Class Y
- 3.2.1 User Inputs and Outputs
- 3.2.2 Input Validation and Error Trapping