

PARAMETERIZATION AND OPTIMIZATION OF THE ERROR
PROPAGATION IN STAR TRACKERS IN THE CONTEXT OF LEO
SPACECRAFT

A Thesis

presented to

the Faculty of California Polytechnic State University,

San Luis Obispo

In Partial Fulfillment

of the Requirements for the Degree

Master of Science in Aerospace Engineering

by

June 2023

© 2023
Gagandeep Thapar
ALL RIGHTS RESERVED

COMMITTEE MEMBERSHIP

TITLE: Parameterization and Optimization of the
Error Propagation in Star Trackers in the
context of LEO Spacecraft

AUTHOR: Gagandeep Thapar

DATE SUBMITTED: June 2023

COMMITTEE CHAIR: Leo Torres, Ph.D.
Professor of Aerospace Engineering

COMMITTEE MEMBER: John Bellardo, Ph.D.
Professor of Computer Science

COMMITTEE MEMBER: Kira Abercromby, Ph.D.
Professor of Aerospace Engineering

COMMITTEE MEMBER: Eric Mehiel, Ph.D.
Professor of Aerospace Engineering

ABSTRACT

Parameterization and Optimization of the Error Propagation in Star Trackers in the
context of LEO Spacecraft

Gagandeep Thapar

Your abstract goes in here

ACKNOWLEDGMENTS

Thanks to:

TABLE OF CONTENTS

	Page
LIST OF TABLES	vii
LIST OF FIGURES	viii
CHAPTER	
BIBLIOGRAPHY	1
APPENDICES	

LIST OF TABLES

Table	Page
-------	------

LIST OF FIGURES

Figure	Page
--------	------

BIBLIOGRAPHY

- [1] Cal Poly Github. <http://www.github.com/CalPoly>.