CTU
CZECH TECHNICAL UNIVERSITY IN PRAGUE

THESIS REVIEWER'S REPORT

I. IDENTIFICATION DATA

Thesis title:	**Fiducial Marker Detection for Vision-based Mobile Robot Localisation**
Author's name:	**Jirl Ulrich**
Type of thesis :	**Bachelor**
Faculty/Institute:	**Faculty of Electrical Engineering**
Department:	**Department of Cybernetics**
Thesis reviewer:	**Dr. Farshad Arvin**
Reviewer's department:	**Electrical & Electronic Engineering, The University of Manchester, UK**

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **Select: Challenging**

How demanding was the assigned project?

It is an interesting project and a very important application in robotics. The tracking system is very Important for multi-robotics projects.

Fulfilment of assignment **Select: Fulfilled**

How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.

The thesis is well organised and clearly fulfilled the assigned tasks. The main goals and objectives are achieved and well justified.

Methodology **Grade: A**

Comment on the correctness of the approach and/or the solution methods.

The methodology of the project presented clearly and the student used sufficient approach in his project.

Technical level **Grade: A**

Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?

The technical approaches are well presented and adequately described. There are clear links to the previous studies and clear differences of this project with the literature.

Formal level and language level, scope of thesis **Grad: A**

Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?

The writing of the thesis is excellent and very easy to follow.

Selection of sources, citation correctness **Grade: A**

Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?

All the critical related works and resources are cited. The state-of-the-art is well described.

Additional commentary and evaluation (optional)

Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.

The project is a very professional piece of engineering work. The results are clearly presented and analysed.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

The project is overall very good. The introduction and literature review is very thorough and well presented. The student demonstrates an understanding of the field.

The grade that I award for the thesis is **A**

Date: **20/08/2020** Name and signature: **Dr Farshad Arvin**