**ATNA ON BLOCKCHAIN**

**PETNATHEAN JULLED**

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT**

**OF THE REQUIREMENTS FOR**

**THE MASTER DEGREE OF CYBER-SECURITY AND INFORMATION ASSURANCE**

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY**

**MAHIDOL UNIVERSITY**

**2018**

**COPYRIGHT OF MAHIDOL UNIVERSITY**

Thesis

Entitled

**AN ANALYSIS ON MECHANICAL DESIGN STANDARDS TO IMPROVE THE PERFORMANCE OF DOCTOSIGHT ROBOT**

was submitted to the Faculty of Engineering, Mahidol University

for the degree of Bachelor of Engineering (Biomedical Engineering)

on

March 22, 2015

|  |  |
| --- | --- |
|  | …………………………………….......  Mr. Petnathean Julled  Candidate |
|  | …………………………………….......  Asst. Prof. Yodchanan Wongsawat,  Ph.D. (Electrical Engineering)  Committee Member  …………………………………….......  Asst. Prof. Warakorn Charoensuk,  Ph.D. (Electrical Engineering)  Committee Member |
| …………………………………….......  Asst. Prof. Jackrit Suthakorn,  Ph.D. (Robotics)  Department Chair,  Department of Biomedical Engineering  Faculty of Engineering  Mahidol University | …………………………………….......  Assoc. Prof. Panrasee Ritthipravat,  D.Eng. (Mechanical Engineering)  Program Director  Bachelor of Engineering Program  (Biomedical Engineering)  Faculty of Engineering  Mahidol University |

Thesis

Entitled

**AN ANALYSIS ON MECHANICAL DESIGN STANDARDS TO IMPROVE THE PERFORMANCE OF DOCTOSIGHT ROBOT**

|  |  |
| --- | --- |
|  | …………………………………….......  Mr. Petnathean Julled  Candidate |
|  | …………………………………….......  Asst. Prof. Jackrit Suthakorn,  Ph.D. (Robotics)  Major Advisor |
| ...............................................  Mr. Worawit Israngkul,  M.S. (Technical Management)  Dean  Faculty of Engineering | ................................................  Asst. Prof. Jackrit Suthakorn,  Ph.D. (Robotics)  Department Chair  Department of Biomedical Engineering  Faculty of Engineering  Mahidol University |