



## Tezpur University

### Certificate

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This is to certify that Mohammad Arif Khan bearing Enrolment No.CSI13018 has prepared the dissertation report entitled *Cognitive Collaborative Control As ROS-Node For Intelligent Wheelchair : Implementation and Evaluation*.

The dissertation is the result of his effort and endeavors. The dissertation is found worthy of acceptance for the award of Master of Technology in Information Technology.He has worked under the supervision and guidance of Dr. Shyamanta M Hazarika.

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Signature of HoD

(Dr.Shyamanta M Hazarika)

Designation:Professor

Department: CSE

Tezpur University

*Head*  
Department of Computer Science & Engg.  
Tezpur University



## Tezpur University

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This is to certify that the dissertation entitled *Cognitive Collaborative Control As ROS-Node For Intelligent Wheelchair : Implementation and Evaluation* submitted to the department of Computer Science & Engineering, Tezpur University, in partial fulfilment for the award of the degree of Master of Technology in Computer Science and Engineering, is a record of bona fide work carried out by Mr Mohammad Arif Khan, Roll No. CSI13018, under my supervision and guidance.

All help received by him from various sources have been duly acknowledged.

No part of this report has been submitted elsewhere for award of any other degree

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Signature of Supervisor

(Dr. Shyamanta M Hazarika)

Designation: ~~Assistant~~ Professor

Department: CSE

Tezpur University

*Head*

Department of Computer Science & Engg.

Tezpur University



## Tezpur University

### Certificate

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This dissertation entitled "*Cognitive Collaborative Control As ROS-Node For Intelligent Wheelchair : Implementation and Evaluation*" submitted by Mohammad Arif Khan, Enrolment.No. CSI13018 for partial fulfilment of the requirements for the degree of Master of Technology in Information Technology at Tezpur University has been examined by us and found to be satisfactory.

*M. Arif Khan*  
01/06/2015

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Internal Examiner

Date:

*G. Kumar*  
01/06/15

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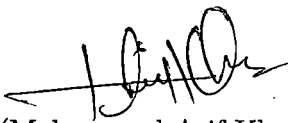
External Examiner

Date:

**EXTERNAL  
EXAMINER**

## Declaration

I, Mohammad Arif Khan, hereby declare that the thesis entitled "*Cognitive Collaborative Control As ROS-Node For Intelligent Wheelchair : Implementation and Evaluation*" submitted to the Department of Computer Science and Engineering under the School of Engineering, Tezpur University, in partial fulfillment of the requirements for the award of the degree of Master of Technology is based on bonafide work carried out by me. The results embodied in this thesis have not been submitted in part or in full, to any other university or institute for award of any degree or diploma.



(Mohammad Arif Khan)

## Acknowledgment

Foremost, I would like to express my sincere gratitude to my supervisor Dr. Shyamanta M Hazarika Professor of Computer Science & Engineering , Tezpur University for his excellent guidance and valuable suggestion during the course project. His guidance helped me in all the time for successful completion of the project work entitled *Cognitive Collaborative Control As ROS-Node For Intelligent Wheelchair : Implementation and Evaluation* undertaken by me as a prerequisite towards partial fulfillment for the award of M.Tech in Information Technology at Tezpur University.

Besides my supervisor, I would like to thank to all faculty members of the department for their support during this project,

Last but not the least, I would like to thank my family: my parents for supporting me spiritually throughout my life.

Mohammad Arif Khan