Department of Computer Science and Engineering



TEZPUR UNIVERSITY

Certificate

This is to certify that this is a bonafide record of the project presented by the students whose names are given below as required by the Department of Computer Science and Engineering, Tezpur University.

The project titled 'Geometric SLAM: Mapping Rectilinear Shapes using a Single Camera" has been done under the supervision of Dr. Shyamanta M. Hazarika and Dr. Arindam Karmakar during Autumn 2013- Spring 2014. The report is satisfactory and worthy of acceptance for fulfilment of the requirements of the degree of Bachelor of Technology in Computer Science and Engineering.

Roll No	Names of Students
CSB10009	Gaurav Prasad Gogoi
CSB10022	Poroj Bhuyan
CSB10025	Halim Masuk Hasan Hazarika

(Project Supervisor)

amanta M. Hazarika) (Dr. Shy

Professor Professor

Date: Department of Correct Department of Co

26/05/14 (Dr. Arindam Karmakar)

Arindam Karmakar)² Assistant Professor

Assistant Professor Department of Computer Science & Engg. Tezpur University

Department of Computer Science and Engineering



TEZPUR UNIVERSITY

Certificate

This is to certify that this is a bonafide record of the project presented by the students whose names are given below as required by the Department of Computer Science and Engineering, Tezpur University.

The project titled 'Geometric SLAM: Mapping Rectilinear Shapes using a Single Camera" has been done under the supervision of Dr. Shyamanta M. Hazarika and Dr. Arindam Karmakar during Autumn 2013- Spring 2014. The report is satisfactory and worthy of acceptance for fulfilment of the requirements of the degree of Bachelor of Technology in Computer Science and Engineering.

Roll NoNames of StudentsCSB10009Gaurav Prasad GogoiCSB10022Poroj BhuyanCSB10025Halim Masuk Hasan Hazarika

(Dr. Shyamana M. Hazarika) Prof. and Head, Deptt. of Computer Science and Engineering, Tezpur University Head Expartment of Computer Science & Erga Texpur University

Date: Place:

Department of Computer Science and Engineering



TEZPUR UNIVERSITY

Certificate

This is to certify that this is a bonafide record of the project presented by the students whose names are given below as required by the Department of Computer Science and Engineering, Tezpur University.

The project titled 'Geometric SLAM: Mapping Rectilinear Shapes using a Single Camera" has been done under the supervision of Dr. Shyamanta M. Hazarika and Dr. Arindam Karmakar during Autumn 2013- Spring 2014. The report is satisfactory and worthy of acceptance for fulfilment of the requirements of the degree of Bachelor of Technology in Computer Science and Engineering.

Roll No Names of Students CSB10009 Gaurav Prasad Gogoi CSB10022 Poroj Bhuyan CSB10025 Halim Masuk Hasan Hazarika M. J. J. J. H (Internal Examiner) Professor Department of Con

iny

Tezpu

Declaration of Authorship

We hereby declare that the report on the project titled "Geometric SLAM: Mapping Rectilinear Shapes using a Single Camera and the work presented in it is, to the best of our knowledge and belief original and the result of our own investigation, except as acknowledged. Further, it has not been submitted, either in part or whole, to any other University/ Institute for the award of any Degree or Diploma.

Gaurav Prasad Gogoi

(CSB10009)

PorojBhya

Poroj Bhuyan (CSB10022)

Halim Masuk Hosan Hazarika Halim Masuk Hasan Hazarika (CSB10025)

Acknowledgments

It gives us immense pleasure to express our deep and sincere gratitude to our supervisor, Dr. Shyamanta M. Hazarika, Professor and Head of Department of Computer Science and Engineering, Tezpur University, for his immense help and support during the project. We would like to thank him for granting us the opportunity to pursue this project and also for providing us with all the necessary resources for the completion of the report.

His quality of noticing positive aspects even in unfavourable situations and his enthusiasm helped us throughout and kept us moving ahead. He made work fun, interesting, enjoyable and exciting. This always motivated us to work harder and further.

We sincerely feel that he is a remarkable and wonderful person as an introducer to the research world, in general, particularly because this is our initial step towards working in such a relatively comprehensive project.

We would also like to take the opportunity to thank Dr. Arindam Karmakar, Assistant Professor, Department of Computer Science and Engineering, Tezpur University, for helping and supporting us with his invaluable suggestions during our work.

Last, but not the least, we would like to thank our friends for their help and moral support.