

3D Indoor Mapping using ROS and Microsoft Kinect sensor

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Abstract—The Robot Operating System (ROS) is a exible framework for developing software with tools, libraries and conventions that facilitate the creation of complex robot behaviour on a wide variety of robotic platforms. This project deals with the exploring the ROS framework for development of a robotic system with various sensors and actuators in order to understand the underlying concepts and to create a robot/quadcopter capable of forming a 3D map of a given environment using a depth camera (Microsoft Kinect).

Index Terms—ROS, Robot Operating System, 3D-Mapping, Microsoft kinect sensor

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Michael Shell Biography text here.

I. INTRODUCTION

THIS demo file is intended to serve as a “starter file” for IEEE journal papers produced under L^AT_EX using IEEEtran.cls version 1.8b and later. I wish you the best of success.

mds

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II. CONCLUSION

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APPENDIX A

PROOF OF THE FIRST ZONKLAR EQUATION

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APPENDIX B

Appendix two text goes here.

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The authors would like to thank...

Jane Doe Biography text here.

REFERENCES

- [1] H. Kopka and P. W. Daly, *A Guide to L^AT_EX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.