Department of Design Engineering and Mathematics



**Building a mobile robot with ROS**

**For education**

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Module: PDE3400 Major project

*BEng Design Engineering*

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Acknowledgements

(OF MOBILE ROBOTS – HISTORY;WHAT THEY ARE; APPLICATIONS; WHERE THEY ARE USED; GENERAL IDEA OF ALGORITHMS;

REASEARCH OF COMMERCIAL ROBOTS

RESEARCH OF MOBILE ROBOTS FOR EDUCATION

DESIGN OF THE MOBILE ROBOT – SHOW DESIGN’S LIFE CYCLE

TALK ABOUT THE SOFTWARE PLATFORM USED- ROS – MOVEIT)

Abstract

WRITE IT AFTER FINISHING THE REPORT

**Introduction**

Robots have brought exponential development and growth in industries, where repeatability and fast pace procedures are essential. The first commercial robots were robot manipulators; conventionally used in industries to carry out pick and place tasks of products on conveyers, reducing time of production, increasing productivity, hence providing with more revenue. These manipulators have always been fixed, so there grew the need for robots to be able to move around, for mobile robots. The entry of mobile robots introduced society to new possibilities, such as aerial drones for the study of Vulcanic eruptions. Mobile robots are yet still an area of research where the main setback is autonomous navigation with an unknown map. Various companies are developing their ideas into building autonomous driving cars applying the philosophy of mobile robots. Hence mobile robotics is going to take as into another era of technology where the average person will have to have a certain degree of knowledge regarding these machines. Most certainly the demand of engineers will grow, as such there is the need to educate young people, our upcoming professional.

In this paper an insight of the research and details of my final year’s project will be given.

# Bibliography

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