

# **AUTOMATED FORKLIFT SCHEDULING SYSTEM**

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by

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## **Abstract**

In the manufacturing organizations, forklifts can be seen and they are being used to carry various things that cannot be handled by humans. In Sri Lanka, most organizations don't follow any proper way to inform the forklift drivers about the jobs available. Forklift drivers has to be informed for the jobs manually. In this dissertation, a system to handle the forklifts more efficiently is described. This system can save time as well as can increase the productivity and it is cost effective. This research is mainly based on Arduino and GSM technology is used as well for the communication method. GSM technology is fast improving technology and it use for various projects in modern world. It is a good communication method than the other communication methods because the noises or the disturbances that can be occur during the communication is lower than the other types of communication methods. Arduino is used for all the processing parts and GSM module is used for the data transmission. There are two types of communication units were designed for the forklifts and the machines or the area of the work floor that produce the jobs for forklifts. When a product finished in the production machine it will automatically send a SMS or when a job is available in the working area, a laborer can send a SMS to all the units in forklifts and indicate about the job to the forklift drivers. Then they can either accept the job or they can reject the job. Multiple drivers can response to the job alert. The first person how respond to the job alert will receive the job and others will be informed about it. All the indications of the system are done using leds, to understand easily and make the attention of the forklift drivers.