

FINAL YEAR PROJECT REPORT
**Automated Liquid Flow Control
Using
LCD's**



A PROJECT REPORT

Submitted by

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BACHELOR OF SCIENCE

IN

ELECTRICAL ENGINEERING

SCHOOL OF ENGINEERING

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

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A PROJECT REPORT



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September, 2015

Declaration of Originality

Here by we pronounce that work and advancement expressed in this report and undertaking is totally our own particular work and nothing in this archive is duplicate glue from some other sources.

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O Lord Let not our hearts go astray from reality after you have guided us and offered to us, leniency from your elegance, verily you are the Giver of bounties without measure. Up or more, everything, all appreciation to ALMIGHTY ALLAH, the caring and the Merciful, who empowered us to explain a drop from the current sea of learning? Innumerable welcome is upon the HOLY PROPHET MUHAMMAD (PBUH), the guide of information, who has guided his "UMMAH" to look for learning from support to grave.

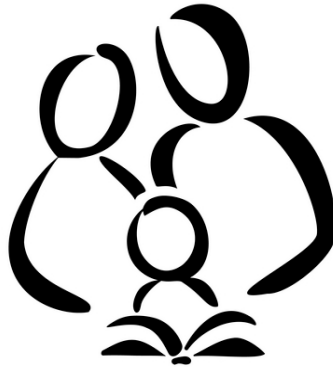
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DEDICATION

We don't have words at summon in perceiving that all credit goes to our inviting Parents, our kin and sisters for their pleasing attitude and love, gigantic orison, full affections, inspiration, well-wishing and unmistakable interest which cheer us to gain ground in each circle of life. Their supplications to ALLAH are the establishments of our flourishing.

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CHAPTER NO.1

INTRODUCTION

INTRODUCTION

Electronic fluid Control System will offer advancement computerization control through visual information logging, pushing reporting at the inspiration driving manage.

- Our modified fluid directing framework will be preferably suited for designating applications in the
- Chemical,
- Medical,
- Auto business meanders

Besides, in addition for other general gathering processes. It will offer careful and repeatable fluid dislodging without the cerebral miseries connected with pneumatic frameworks obliging experimentation similitude. Approaches stay untouched and safe. The sagacious changed controlling framework satisfactorily Work for volume and the fitting rate to perform careful, repeatable distributing parameters.

A mass stream regulator (MF) is a contraption used to gage and control the surge of liquids and gasses. A mass stream controller is organized and fit in with control a specific sort of liquid or gas at a particular level of stream rates. The MFC can be given a set point from 0 to 100% of its full scale go however is generally worked in the 10 to 90% of full scale where the best precision is refined. The contraption will then control the rate of stream to the given set point. MFCs can be either immediate or electronic. An actuated stream controller is usually organized to control more than one sort of fluid while a principal controller is compelled to the fluid for which it was balanced.

Measuring the surge of liquids is a noteworthy need in diverse moved plants. In a few operations, the ability to orchestrate cautious stream estimations is crucial to the point that it can have the impact between making good position or taking a hit. In unmistakable cases, misguided stream estimations or failure to take estimations can fulfill honest to goodness (or even woeful) results.

With most liquid stream estimation instruments, the stream rate is determined inferentially by measuring the liquid's velocity or the modification in component centrality. Speed depends on upon the weight differential that is convincing the liquid through a channel or course. Since the channel's cross-sectional degree is known and stays reliable, the ordinary rate.
