**UNIVERSIDAD TECNOLÓGICA DE QUERÉTARO**



SOFTWARE DESIGN DOCUMENT FOR

THE DC MOTOR SPEED CONTROLLER

Embedded Software Course

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## RECORD OF CHANGES

\***A-** ADDED **M**-MODIFIED **D**-DELETED

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| **VERSION NUMBER** | **DATE** | **NUMBER OF FIGURE, TABLE, OR PARAGRAPH** | **A \***  **M**  **D** | **TITLE OR BRIEF DESCRIPTION** | **Change Request Number** |
| 1 | 14/09/2019 |  | **A**- |  |  |
| 2 | 28/09/2019 |  |  | Initial Revision |  |

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# SCOPE

This Software Design Document (SDD) establishes the design for the software implementation for a DC Motor Speed Controller. The DC Motor Speed Controller is being developed under the direction of the Embedded Software Companies from Queretaro committee. Updates to this SDD will address future upgrades to the DC Motor Speed Controller.

# Document Overview

This SDD identifies all the system and software diagrams for the DC Motor Speed Controller software development.

# Design

## System Diagram

The System Diagram below identifies the inputs and outputs of the system based on the project’s requirements

## Software Diagram

## Flow Diagram

## Control Diagram

## Call Graph

## Task Scheduler