Malayan Colleges Laguna
A MAPÚA SCHOOL

REVISION NO : 00
REVISION DATE: Sept. 27, 2018
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INTEGRATIVE COURSE PROGRESS REPORT

COURSE: EE CAPSTONE PROJECT 2	**COURSE CODE:** EE200D-2	**SECTION:** C20	**SY/TERM:** 2019-2020 / 2T
TITLE OF RESEARCH PROJECT: COMPUTER-BASED DC MACHINE LABORATORY			**GROUP CODE:** 2019EE 003

INTEGRATIVE COURSES		THESIS PHASE	
☐ THESIS	☐ PLANT DESIGN	☐ PROPOSAL DEFENSE	☐ FINAL DEFENSE
■ CAPSTONE PROJECT	☐ BUSINESS PLAN	■ DATA GATHERING	
☐ FEASIBILITY STUDY			

Name of Students (SURNAME, GIVEN NAME MI.)	Student No.	Program of Study	Signature
MARCAIDA, AR-JHAY A.	2015102107	B.S. Electrical Engineering	
MUÑIZ, JOHN DAVID M.	2015141602	B.S. Electrical Engineering	

DESCRIPTION OF WORK DONE FOR THE TIME PERIOD
(Use back page or additional sheets if necessary)

WEEK #: 1 **COVERED DATE: NOV. 14 – NOV. 20 2019**

FOR THE FIRST WEEK, OUR ADVISER BRIEFLY DISCUSSED HOW OUR CAPSTONE PROJECT SHOULD WORK. ENGR. CESAR MANALO JR. ALSO TOLD US WHAT EQUIPMENTS WE SHOULD BE USING AND THE SOFTWARES THAT WE NEED IN ORDER TO START OUR PROJECT.

To be filled up by adviser.

☐ Ready for Oral Defense	Endorsed by:	Preferred Schedule:

ATTESTED BY	NOTED BY
ADVISER Signature over printed name / Date	**MARIA CARMELA F. CAPUL** **COURSE COORDINATOR** Signature over printed name / Date

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WEEK #: 2 **COVERED DATE:**

FOR THE SECOND WEEK, WE STARTED LOOKING FOR EQUIPMENTS THAT WE NEED FOR OUR PROJECT. WE LOOKED AT LAZADA AND SHOPEE TO SEE IF THE COMPONENTS NEEDED ARE AVAILABLE ONLINE. IN THIS WAY, WE CAN STUDY AND AT THE SAME TIME WAIT FOR THE COMPONENT TO BE DELIVERED TO US.

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WEEK #: 3 **COVERED DATE: NOV. 28 – DEC. 4 2019**

FOR THE THIRD WEEK, WE STARTED LOOKING FOR EQUIPMENTS THAT WE NEED FOR OUR PROJECT. WE LOOKED AT LAZADA AND SHOPEE TO SEE IF THE COMPONENTS NEEDED ARE AVAILABLE ONLINE. IN THIS WAY, WE CAN STUDY AND AT THE SAME TIME WAIT FOR THE COMPONENT TO BE DELIVERED TO US.

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WEEK #: 4 **COVERED DATE: DEC. 5 – DEC. 11 2019**

FOR THE FOURTH WEEK, WE STARTED OUR CAPSTONE PROJECT. WE FIRST LAID OUT HOW OUR PROTOTYPE WILL LOOK LIKE IN PCB. WE DESIGNED OUR PROTOBOARD.

To be filled up by adviser.

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WEEK #: 5 **COVERED DATE: DEC. 12 – DEC. 18 2019**

FOR THE FIFTH WEEK, WE LOOKED FOR OTHER MATERIALS THAT WE ARE NOT ABLE TO BUY. DUE TO THE CONTINUOUS UPDATE OF OUR DESIGN, WE NEED TO BUY NEW COMPONENTS THAT WERE LISTED BY OUR ADVISER RECENTLY.

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WEEK #: 6 **COVERED DATE: JAN. 6 – JAN. 12 2020**

FOR THE SIXTH WEEK, WE CONTINUED LOOKING FOR THE COMPONENTS NEEDED FOR OUR PROJECT. WE LOOKED AT MANILA DEECO FOR THE SENSORS AND INTEGRATED CIRCUITS THAT WE WILL USE FOR THE PROJECT.

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WEEK #: 7 **COVERED DATE: JAN. 13 – JAN. 19 2020**

FOR THE SEVENTH WEEK, WE OBTAINED MOST OF THE ELECTRONIC COMPONENTS NEEDED FOR OUR PROTOTYPE. IN ORDER TO BUILD OUR PROTOTYPE, WE STARTED BY BUILDING IT BY PARTS. THE FIRST ONE WE BUILT WAS THE VOLTAGE SENSOR THAT WE HAVE DESIGNED UNDER THE GUIDE OF OUR ADVISER ENGR. CESAR MANALO JR. AFTER COMPLETING THE VOLTAGE SENSOR, WE TRIED IMPLEMENTING IT IN THE LABVOLT EMS. THE RESULTS WE HAVE GATHERED ARE ERRATIC. THERE ARE A LOT OF VOLTAGE SWINGS IN OUR READINGS. SIR MANALO MADE A SECOND LOOK ON OUR DESIGN AND SUGGESTED THAT ADDING CAPACITORS TO ELIMINATE NOISE IN OUR READINGS MIGHT DO THE JOB.

To be filled up by adviser.

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WEEK #: 8 **COVERED DATE: JAN. 20 – JAN. 26 2020**

FOR THE EIGHTH WEEK, WE IMPLEMENTED THE CHANGES NEEDED FOR OUR VOLTAGE SENSOR. WE ADDED 10 MICROFARAD CAPACITORS. THE RESULTS STILL YIELD VOLTAGE SWINGS. AS SUGGESTED BY SIR MANALO, WE INCREASED THE CAPACITANCE OF THE CAPACITORS USED. WHEN THEN TRIED 100 MICROFARAD CAPACITORS. THE NOISES STARTED TO DECREASE BUT STILL PERSISTED. THE SWINGS ARE STILL SIGNIFICANT SO WE INCREASED THE CAPACITANCE USED TO 1000 MICROFARAD. FINALLY, THE LATEST DESIGN SHOWED ACCURATE RESULTS WITH MINIMUM TO NO VOLTAGE SWINGS.

To be filled up by adviser.

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WEEK #: 9 **COVERED DATE: JAN. 27 – FEB. 2 2020**

FOR THE NINTH WEEK, WE STARTED DOING OUR POWER SUPPLY. WE HAD DELAYS AT FIRST BECAUSE THE DIODES WE'VE BOUGHT ARE RATED FOR SMALL VOLTAGE APPLICATIONS. IT TOOK US SOMETIME TO ACQUIRE RECTIFIER DIODES USED FOR POWER SUPPLY APPLICATION. WE DESIGNED A TYPICAL POWER SUPPLY AND BUILT IT. WE USED AN LED INDICATOR IF IT IS PROPERLY WORKING WHEN CONNECTED TO THE 220VAC SUPPLY. IT WORKS PERFECTLY AND THE VALUES FOR THE VOLTAGE WE MEASURE AT THE OUTPUT SIDE IS ALWAYS A FEW MILLIVOLTS SHY OF 5V, THE VALUE WE EXPECT IT TO BE.

To be filled up by adviser.

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WEEK #: 10 **COVERED DATE: FEB. 3 – FEB. 9 2020**

FOR THE TENTH WEEK, WE HAVE ACQUIRED OUR CURRENT SENSOR AND SPEED SENSOR MODULES. WE FIRST STUDIED ON HOW TO OPERATE THEM. UNFORTUNATELY, THE OPERATION OF THE SPEED SENSOR REQUIRES A MORE COMPLICATED APPROACH AND AN INTRICATE STRUCTURE TO BE CONNECTED TO THE DC MOTOR. WE HAVE DECIDED TO FOCUS ON THE CURRENT SENSOR FIRST AND DEAL WITH THE COMPLEXITIES OF THE SPEED SENSOR LATER ON. OUR ADVISER, SIR MANALO, SUGGESTED THAT WE CONNECT OUR CURRENT SENSOR TO OUR PROTOTYPE AS A MOUNTED TYPE OF SENSOR. THAT WAY WE CAN EASILY DISCONNECT IT FROM THE PROTOTYPE SAY AN ERROR OCCURS. WE HAVE TESTED IT WITH THE PROGRAM AND IT WORKS PROPERLY.

To be filled up by adviser.

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WEEK #: 11 **COVERED DATE: FEB. 10 – FEB. 16 2020**

FOR THE ELEVENTH WEEK, WE HAVE FINISHED DESIGNING OUR SPEED CONTROL MODULE. SIR MANALO PLAYED AN IMPORTANT ROLE IN HELPING US DESIGN THE CIRCUIT TO BE USED SINCE IT REQUIRED CRITICAL KNOWLEDGE ON THE USE OF POWER MOSFETS, SOMETHING WE ARE NOT VERY FAMILIAR WITH. THE CIRCUIT COMPRISED OF HIGH POWER RATED CERAMIC RESISTORS AND POWER MOSFETS. WE HAVE COMPLETED BUILDING IT BUT ARE STILL UNABLE TO TEST IF IT WORKS.

To be filled up by adviser.

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WEEK #: 12 **COVERED DATE: FEB. 17 – FEB. 23 2020**

FOR THE TWELFTH WEEK, WE HAVE COMPLETED OUR VOLTAGE SENSOR MODULE, CURRENT SENSOR MODULE, AND MOTOR FIELD CIRCUIT CONTROL MODULE. WE STARTED INTEGRATING THESE SENSORS TO WORK PROPERLY TOGETHER. BECAUSE OF TIME CONTRAINTS AND THE COMPLEXITIES THAT WILL INVOLVE THE OPERATION OF OUR SPEED SENSOR, WE HAVE ACCEPTED THE FACT THAT ITS COMPLETION WILL BE DELAYED. HOWEVER, THE WORKABILITY OF OUR SYSTEM STILL HOLDS TRUE. WE HAVE ENCODED AT LEAST TWO DC MOTOR EXPERIMENTS IN ORDER TO PERFORM THEM WITH THE USE OF OUR PROPOSED SYSTEM.

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