ELEC 374 – Digital Systems Engineering

Lab 1 Report

Divaydeep Singh, 20143859

Lucas Austin, 20061953

ALU

Text

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

BUS

Application

Description automatically generated with medium confidence

BUS Encoder

Table

Description automatically generated

BUS Multiplexer

Graphical user interface, text, application

Description automatically generated

General Register

Graphical user interface, text, application

Description automatically generated

DataPath

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

Datapath Testbench

A picture containing text

Description automatically generated

A picture containing diagram

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

MDR register

Graphical user interface, application

Description automatically generated

Multiplication Algorithm

Text

Description automatically generated with low confidence

PC Reg

Graphical user interface, application

Description automatically generated

Rotate Register

Table

Description automatically generated

Table

Description automatically generated with medium confidence

Z\_Register

Graphical user interface, application

Description automatically generated