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Lab Report 2

ECE 2031 L09

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Diagram

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**Figure 1.** Karnaugh mapwith minterms encircled. The map is simplified to the expression on the right: Output = X\*/Z + X\*Y +Y\*W.

Diagram

Description automatically generated**Figure 2.** Circuit schematic that implements the equation Output = X\*/Z + X\*Y +Y\*W. The diagram has the chip types and ports specified for physical implementation on the breadboard.

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**Figure 3.** The circuit implementation of the boolean function LED = X\*/Z + X\*Y +Y\*W where W, X, Y, and Z are the switches towards the left of the circuit board.

A picture containing timeline

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**Figure 4.** The square waves of the oscilloscope’s calibration signal for both probes V1 (yellow) and V2 (pink).