**FLOOD MONITORING AND ALERING SYSTEM TINKERCAD SIMULATION**

College of Engineering, Architecture and Industrial Design

**BOHOL ISLAND STATE UNIVERSITY**

Main Campus, Tagbilaran City, Bohol

CLIFFORD JAY DELA PENA

JESSON PITLO

MICHAEL JHON MADRONA

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Research Project Presentation for Bachelor of Science in Electrical Engineering

**BOHOL ISLAND STATE UNIVERSITY**

Main Campus, Tagbilaran City, Bohol

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In Partial Fulfillment of the Requirements of the Course

**CPE 03 - Microprocessor Systems**

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**IMAGINATIVE ABSTRACT**

Flood is a major known natural calamity that causes significant damage to the environment and living beings. So, during these times of calamity, it is essential to have emergency alerts of water level status at river beds. In this project, the objective is to use an ultrasonic sensor to check the water level of the rivers to see if they are in normal condition or not. If they reach beyond the limit, then it alerts people through LED signals and buzzer sound. This system will display the data of the water level measured on LCD display. The device will use ultrasonic sensor to sense the river levels and will use Arduino Uno to process these data. Timely detection of floods which results in prevention of risks and accidents. With this project it can save many people's lives by giving alerts when the water level crosses beyond the limit. This project is very cost-effective, flexible, and productive in areas where flood conditions happen everytime.