



BUKIDNON STATE UNIVERSITY

Malaybalay City, Bukidnon 8700

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SECRETARY'S MINUTES

Title of Paper: **AI-Based Drowsiness Detection and Alert System to Enhanced Road Safety using YOLOv8**

Name of Proponents: **Arvin Glenn Aguid**
Bryan Tagaan
Rene Rey Sale
James P. Lim

Type of Defense: (☒) **Proposal Defense** (☐) **System Defense** (☐) **Final Defense**

Number of Rounds: (☒) **1st** (☐) **2nd** (☐) **3rd**

Date/Time & Venue: **December 20, 2024 || 1:30pm || BukSU COMLAB 7**

Adviser: **Gil Nicholas T. Cagande**

Panel Chair/REC: **Malabo, Psyche T.**

Panel Members:

Libe, Glyza Mae
Navidad, Czarissa Louise

Secretary: **Lecaros, Raul D.**

Name of Panel	COMMENTS/SUGGESTIONS
Navidad, Czarissa Louise	<ul style="list-style-type: none">Clarify what the system will do after the driver has been detected as drowsy.Specify the location of the phone that will be used by the system. The adviser was also suggesting that an external camera will be used attached to the phone (mini version)Extract information for RRL from some related systems or other commercially available products and review them.Comments in the format of the paper are written.

Name of Panel	COMMENTS/SUGGESTIONS
Libe, Glyza Mae	<ul style="list-style-type: none">Check the spelling of your manuscript.Avoid repeating thoughts into different paragraphs.Revise the diagram of Agile to specify which phase of the agile methodology is reiterating.



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	<ul style="list-style-type: none">• Specify the costing of your hardware.• Specify the trigger warning and make sure that it wakes up the driver.• Specify the impact of the report. It was suggested that an admin user is created to view these reports.• Include the detailed test cases in chapter 3.• Consider adding "Steering patterns" as a basis for drowsiness.• Comments in the format of the paper are written.
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Malabo, Psyche T.	COMMENTS/SUGGESTIONS <ul style="list-style-type: none">• Support the strategic placement of the phone with an existing literature or study.• Specify the feature of the proposal that makes the capstone project novel as some technologies already integrate these detectors to rear view mirrors. Moreover, the YOLOv8 algorithm is already established and it was suggested that this algorithm be compared with other algorithms.• Stipulate the specific methods in the chosen process model. Describe how these phases will be performed and not just define it.• Objectives must be aligned with the methodology. Begin with the data collection objective.• Flowcharts, Architectural design, and other diagrams are part of the design phase of the methodology.• Include which study has this Agile method been anchored from as this may be a modified type of agile methodology.• Halt at testing the accuracy of the algorithm (YOLOv8). No need for evaluation using the ISO survey. UAT should still be included as part of the client's evaluation.• On the data set: 80% for Training and 20% for Testing.• Comments in the format of the paper are written.
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Panel Verdict:

(/) Approved with Minor Revision

() Approved with Major Revision

() Rejected

RAUL D. LECAROS

Signature over Printed Name of Secretary



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