

# Individual Project Contribution Report

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## Voice Controlled ESP32 Smart Switch Board

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Project Group No.118

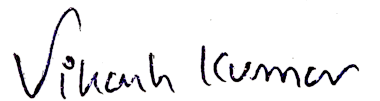
**Abstract:** This project is a cost-effective and easy-to-implement smart home automation system that integrates voice-controlled assistants, such as Amazon Alexa and Google Home. The system uses an ESP32 microcontroller and an 8-channel relay module to control various devices in the home and communicate with the voice-controlled assistants through the internet. The project was successful in controlling devices using voice commands and is reliable and attractive to users. The proposed system provides a convenient and intuitive solution for smart home automation.

**Individual contribution and findings:** As a software developer in this project, my primary responsibility was to design and implement the software components required for the smart home automation system. I worked on the development of the control system, which involved programming the microcontroller to control various devices and sensors. I also integrated the software with the hardware components to ensure that the system worked seamlessly. To ensure the reliability and robustness of the software, I conducted extensive testing and debugging, which included both functional and non-functional testing. I wrote test cases and executed them to verify the correctness of the software and to identify and fix any issues that arose during the testing process.

**Individual contribution to project report preparation:** Creating diagrams, figures, and illustrations to help explain the project design and results.

**Individual contribution for project presentation and demonstration:** operating the software or hardware being demonstrated, providing technical explanations, or engaging with the audience.

Full signature of the student:

  
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