

# Individual Project Contribution Report

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## Voice Controlled ESP32 Smart Switch Board>

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**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 part of the project team, my primary focus was on the software design and implementation of the control system for the smart home automation project. This included the development of the code that would enable the user to interact with the various components of the system, such as the lighting, temperature, and security systems.

To achieve this, I first conducted a thorough review of existing software systems that were similar to our project. I then worked with the hardware team to ensure that the software was fully integrated with the components they had selected.

Throughout the project, I conducted extensive testing to ensure that the software worked correctly and was user-friendly. I also contributed to the project report and presentation by writing the software implementation section and creating diagrams and figures that explained the functionality of the software.

**Individual contribution to project report preparation:** Writing the Result and Analysis section and analyzing the data collected during the project.

**Individual contribution for project presentation and demonstration:** I explained about the need of a project like ours and also about the competition in the current market and how is our project better than theirs and why will this be used more than theirs.

Full Signature of Supervisor/s:

Full signature of the student:

W. Srivastava

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