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## Cover page

Project title: ...Chess Whisperer.....

Academic Year: .....2023-2024.....

Group Members: ...Masa Wadah Sayegh

...Masa Ala' Zablal

Department Name: ...Computer Engineering.....

**Project Type :Hardware**

Supervisor Name: Dr. Aladdin Masri

### Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

### Abstract Body:

#### Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



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Abstract:

The ChessWhisperer project, an automated chessboard incorporating artificial intelligence (AI) to enhance both the educational and gaming aspects of chess. ChessWhisperer is designed to transform the traditional chess experience by seamlessly blending physical gameplay with intelligent algorithms. The project's core features include an AI-powered gaming mode, enabling users to face a dynamic and challenging opponent, and an interactive learning mode that guides users through the principles of the game. The significance of ChessWhisperer lies in its potential to meet the rising demand for tech-enhanced gaming experiences, appealing to both beginners and seasoned players. The hardware components utilized in the project, such as microcontrollers, motors, sensors, and input/output devices, are detailed, showcasing the intricate integration required for its functionality. The AI algorithms, based on MinMax and Alpha-Beta, contribute to ChessWhisperer's strategic gameplay. ChessWhisperer stands as a comprehensive and innovative addition to the landscape of automated chessboards, offering an engaging and educational experience for chess enthusiasts of all levels