

# Fall Detection Device

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# Background

- A third of elderly individuals fall each year
- WSN techniques can improve response times



# Our Solution

- System is capable of detecting sudden changes in acceleration.
- Devices connect over wifi to communicate
- Client device sends message to base station device

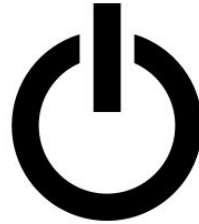
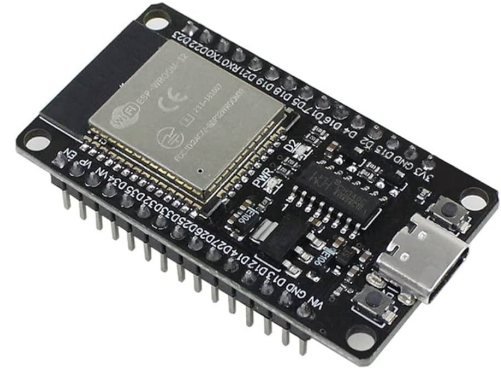


# Video Demonstration

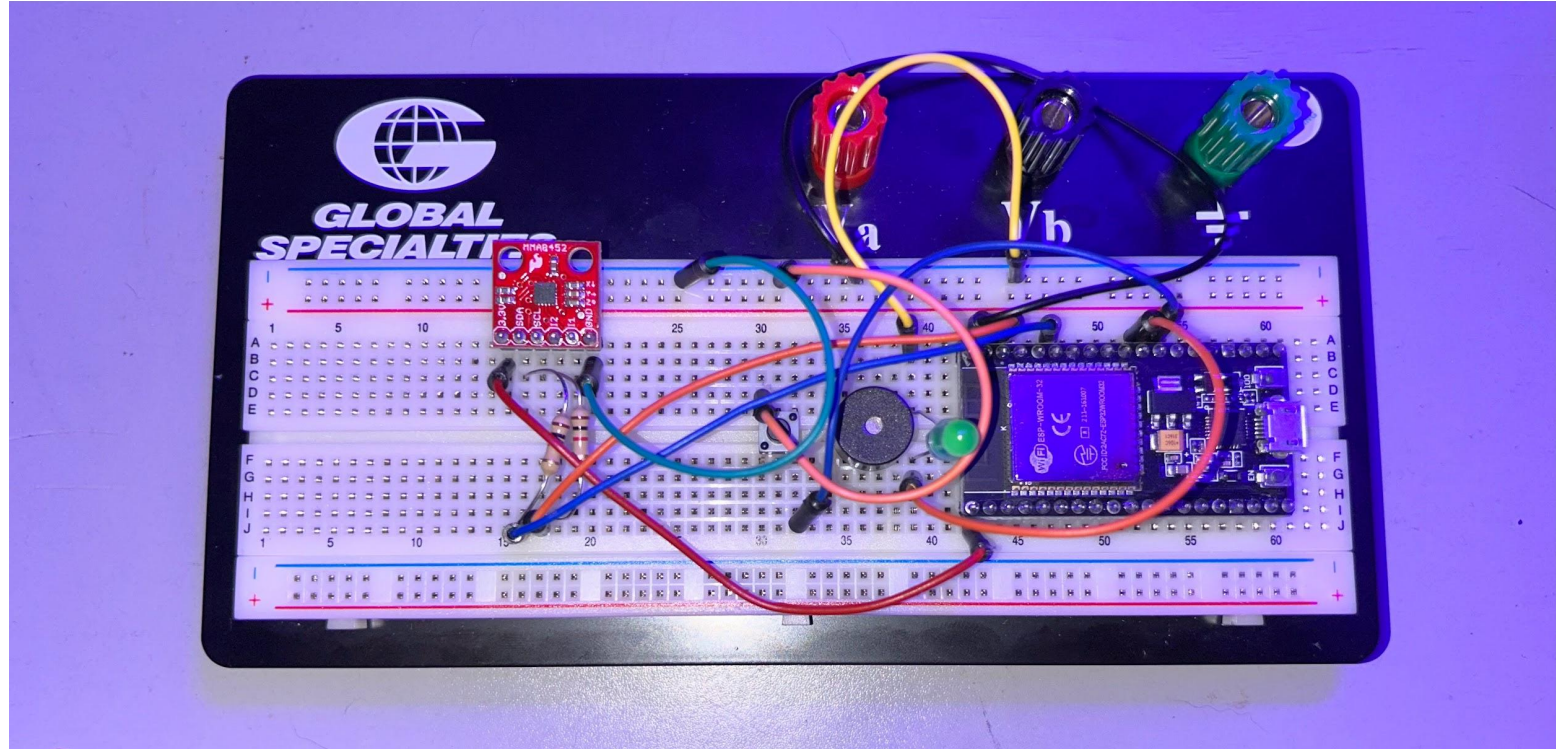


# Challenges and considerations

- Range
- False positives / Negatives
- Power saving techniques



# Conclusion



# Sources

<https://health-infobase.canada.ca/falls-in-older-adults/>

<https://www.canada.ca/en/public-health/services/publications/healthy-living/surveillance-report-falls-older-adults-canada.html>