**Title Page**

* Title of Dissertation
* Your Name
* University Name
* Department
* Date

**Abstract**

* Summary of Objectives, Methods, Results, and Conclusion

**Acknowledgments**

**Table of Contents**

**List of Figures**

**List of Tables**

**Abbreviations and Symbols**

**Chapter 1: Introduction**

* Background
* Problem Statement
* Objectives
* Scope of Study
* Structure of the Dissertation

**Chapter 2: Literature Review**

* Overview of ECG Signal Processing
* Electrode Motion Artifacts
* Existing Methods for Noise Removal
* Machine Learning in Biomedical Signal Processing
* Gaps in the Literature

**Chapter 3: Methodology**

* Data Collection
  + Source of ECG Data
  + Preprocessing
* Noise Modeling
  + Types of Motion Artifacts
  + Simulation of Noisy Signals
* Machine Learning Techniques
  + Supervised Learning
  + Unsupervised Learning
  + Deep Learning Models
* Model Training and Validation
  + Training Procedures
  + Evaluation Metrics

**Chapter 4: Implementation**

* Software and Tools Used
* Implementation Details
* Workflow
* Challenges and Solutions

**Chapter 5: Results and Discussion**

* Performance of Machine Learning Models
* Comparison with Existing Methods
* Analysis of Results
* Implications and Applications

**Chapter 6: Conclusion**

* Summary of Findings
* Contributions to the Field
* Limitations of the Study
* Future Work

**References**

**Appendices**

* Additional Data
* Code Listings
* Supplementary Material