

# BATTERY STATE OF CHARGE ESTIMATION USING UNSCENTED KALMAN FILTER BASED ON THEVENIN BATTERY MODEL

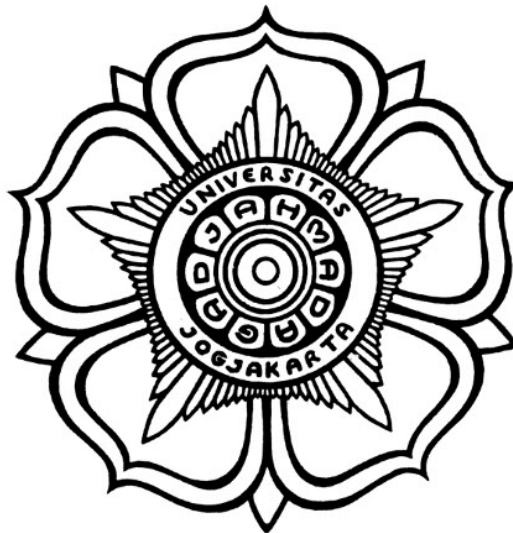
## Thesis

submitted in partial fulfillment of the requirements  
for the degree of master

Electrical Engineering Program

Electronic Signal System Major

Department of Electrical Engineering and Information Technology



proposed by

**SIFA'US WULANING ARSRI**  
**20/467334/PTK/13395**

To

**GRADUATE PROGRAM**  
**FACULTY OF ENGINEERING**  
**UNIVERSITAS GADJAH MADA**  
**YOGYAKARTA**  
**2023**

## THESIS

### BATTERY STATE OF CHARGE ESTIMATION USING UNSCENTED KALMAN FILTER BASED ON THEVENIN BATTERY MODEL

**Sifa'us Wulaning Arsri**

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has been approved by Supervisor team

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## THESIS

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Written by

**Sifa'us Wulaning Arsri**

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Has been defended in front of the Boad Examiners

On : **July 21, 2023**

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This Thesis has been submitted in partial fulfillment of the requirements  
for the degree of Master of Engineering

On: **October 23, 2023**

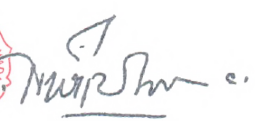
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