## FLORIDA STATE UNIVERSITY FAMU-FSU COLLEGE OF ENGINEERING

## SCALE-UP SAMPLE FABRICATION AND PRELIMINARY TRANSPORT MECHANISM STUDY OF CARBON NANOTUBE BASED ELECTRICAL CONDUCTOR

By

## **SONGLIN ZHANG**

A Dissertation submitted to the
Department of Industrial and Manufacturing Engineering
in partial fulfillment of the
requirements for the degree of
Doctor of Philosophy

Songlin Zhang defended this dissertation on April 9, 2019. The members of the supervisory committee were: Zhiyong (Richard) Liang **Professor Directing Dissertation** Petru Andrei University Representative Chad Zeng Committee Member Jin Gyu Park Committee Member Tarik Dickens Committee Member

The Graduate School has verified and approved the above-named committee members and certifies that the dissertation has been approved in accordance with university requirements.