



Huijie Mao

(+86) 156-5190-9903
maohuijie0709@163.com
No. 29, Jiangjun Road,
NUAA, Nanjing, China

Certification & Skills

Familiar with theory of maths, physics, engineering mechanical and maintenance.
Expert in Matlab, AutoCAD, LabVIEW
CET6, IELTS and daily conversation

Education

- 2015.04-present **Nanjing University of Aeronautics and Astronautics(NUAA)**
Candidate for Ph.D. degree, Vehicle Application Engineering, **Advisor:** Zuo Hongfu
Research direction: Prognostic and Health Management of Complex System
- 2013.09-2015.04 **Nanjing University of Aeronautics and Astronautics(NUAA)**
M.E., Vehicle Application Engineering, **Advisor:** Zuo Hongfu
Research direction: advanced monitoring technologies
- 2009.06-2013.06 **Nanjing University of Aeronautics and Astronautics(NUAA)**
B.E., Vehicle Application Engineering

Publications

Patents:

Electrostatic sensor calibration device, (second inventor. Published)

Paper:

- The Research on Modeling and Optimization of Comprehensive Maintenance**, 3rd International Conference on Frontiers of Manufacturing Science and Measuring Technology, ICFMM 2013, July 30, 2013 - July 31, 2013. (in English, the first author)
- Research of Mathematical Modelling and Calibration Experiment of the New Electrostatic Sensor in Aviation**. Acta Aeronautica et Astronautica Sinica, 2015. (the first author)
- Study on measurement method of Debris' accurate charge using the electrostatic sensor in the oil system**. Chinese Journal of Scientific Instrument, 2016. (the first author)

Project & Research Experience

- 2012.12-2014.11 **"Study on the theory and method of aero-engine new life predictive maintenance decision" (NO. 60939003). Supported by National Natural Science Fund**
Key member: Responsible for design the electrostatic sensors and the equipment. Help for software development.
- 2013.06-2014.01 **"Study on the monitoring of gear box of low speed metro".**
Key member: Responsible for equipment and software development and the data processing.
- 2016.05-2016.12 **"Study on the monitoring of gear box of wind turbine using the electrostatic sensor and the vibrating sensor".**
Leader: Responsible for equipment and software development and the data processing research.
- 2015.12-present **"Research of health monitoring and prediction technology of airborne equipment". Supported by MIIT**
Key member: Responsible for the PHM of oil system and the hydraulic system.
- 2016.11-present **"Research on Prognostic and Health Management of Complex Mechanical System". Supported by Provincial Science Fund**
Leader: Framework construction and System Implementation.

Awards

- 2012-2013 **Airbus Scholarship**
- 2012-2013 **First Scholarships of NUAA**
- 2013-2015 **COMAC Scholarship**