

Name: **WENJING JIN**

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Highlights:

Proficient in intelligent data analysis for manufacturing Prognostics and Health Management (PHM);
Experiences in developing and deploying autonomous diagnostic and prognostic agents for critical mechanical components and machining system

Education:

2010~Present

Department of Mechanical Engineering in University of Cincinnati (UC)
Ph.D. Researcher in NSF I/UCRC Center for Intelligent Maintenance System

2004~2008

Huazhong University of Science & Technology (HUST), China
Bachelor of Engineering in Automation, Dept. of Control Science & Engineering
Thesis: Development of a Class of Image Recognition System

Current Research Experiences at IMS:

Research Area

Accelerated Prognostics Health and Management (APHM)
Machinery System Precision Prognostics

NSF Fundamental Research: Design of APHM

Ball Screw Precision Prognostics and Health Diagnosis, HIWIN, Taiwan
Precision estimation for Ball Screw System, HIWIN&IMS

Cloud-based PHM System for Machine Tools

Cloud-based PHM for Band Saw Machine System, Cosen, Taiwan & US

Health Diagnosis for Electric Motors

RUL Prediction on Brushless DC motor actuator, Woodward, US
Health Assessment of 3-Phase Asynchronous Induction Motor, Alstom, Spain

Smart Battery Health Assessment System

Cloud-based Virtual Battery System, ITRI, Taiwan
Smart Battery Management System based on Battery Characteristics Curve, ITRI

Turbine Airfoil Laser Drilling Health and Quality Monitoring

Research on GE gas turbine airfoil laser drilling process health diagnosis

Motion Control Mechanisms Health Assessment

Feed Axis System Fault Diagnosis & Remain Useful Life (RUL) Prediction,
TechSolve, US

Energy-based Green Machine Health Diagnosis Platform, TechSolve, US

Previous Experiences:

07/2011-09/2011

Intern in HIWIN Technologies Co. Taiwan

Supported and developed fault prognostics for feed axis system components level

12/2008~06/2010

Engineer in Beijing Tashanshi Precision Mechanics Company, China

Worked on Siemens PLC programming for the process controlling and the circuit design

07/2008~10/2008

I.E. Engineer in Ramaxel Technology Company Shenzhen, China

Participated in the RAM design and manufacture (I.E. : Industrial Engineering)

Honors and Awards:

Honor of Excellent Graduate Student & Excellent Graduate Thesis, HUST, China

Certificate of Computer and Software Technology Proficiency Software Designer, China

Special Skills:

Matlab® & Simulink, LabVIEW, VAR Microcontroller; VC++ & MFC, C language, Assemble language; Protel 99 SE, Pspice, Auto CAD, Delphi, PHP, SQL server 2000, MaxplusII