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Eric Blaise

Objective Seeking a Ph. D. level job which requires innovative ideas of intelligent structure design and system integration

Education

Present Stanford University Stanford, CA
Ph. D. Candidate in Mechanical Engineering

1998 École Polytechnique Montreal, Canada
M.S. in Mechanical Engineering

1996 École Polytechnique Montreal, Canada
B.S. in Mechanical Engineering

Experience

9/1998 – Present Stanford University Stanford, CA
Research Assistant

- Design of integrated sensor network within the core of sandwich structure to detect de-bonds between the core and the skins of sandwich structure.
- Development of signal processing and interpretation algorithm to interpret the measured signal and evaluate the extent of damage.

European Aeronautic Defense and Space Company
Bremen/ Munich, Germany

- Installed piezoelectric patches on full scale Airbus fuselage lap joints
- Performed data acquisition during fatigue test of Airbus lap joints

Air Force Research Laboratory, Wright-Patterson Dayton, OH

- Performed data acquisition and troubleshooting during fatigue test.

Boeing Company

- Signal processing of data taken from test structure and adapt algorithm, to detect impact damage in composite airframe.

Northrop Grumman

- Design sensor layout to detect damage in curved composite sandwich panel.
- Data acquisition and signal processing to evaluate the extent of the impact damage inside the panel.

4/2002 – Present Acellent Technologies Sunnyvale, CA
Systems Integration Engineer

- Design of integrated sensor network and damage detection algorithms for automobile prototypes at BMW in Germany.
- Develop a graphical user interface to generate and record signals from a series of actuators and sensors attached to a structure.

5/1995 – 8/1995

Bombardier Aerospace

Montreal, Canada

Method's Agent

- ✍ Define new assembly processes.
- ✍ Evaluate the time requirements necessary to assemble aircraft parts.
- ✍ Evaluate the time gain by changing the assembly process.

Awards and Prizes

NSERC – (Canadian National Science and Engineering Research Council)

- ✍ Scholarship awarded to pursue PhD studies outside of Canada.

FCAR – (Quebec funds for research)

- ✍ Scholarship to pursue research PhD.

2nd prize for the student poster competition at the 2nd meeting of the CRASP: the technological challenge of polymer transformation.

Skills

- ✍ Design and manufacturing of integrated sensor systems
- ✍ Digital signal processing and feature extractions
- ✍ MATLAB, ANSYS, NASTRAN, AUTOCAD, CATIA, MAPLE, DISPERSE, PZ-Flex, C++, MS Word, Power point, Excel
- ✍ Hands on experience on using fatigue testing equipment (MTS) and thermal analysis equipment (DMA, DSC).
- ✍ Language: French, English and German.