

Olivier Léon

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EDUCATION

The Pennsylvania State University, College of Engineering: Aerospace Department

University Park, PA

Masters Degree, Aerospace Engineering

Fall 2007 – Present

Thesis topic: Helicopter Rotor Power Reduction Using Trailing Edge Flaps

Degree expected Aug. 2009

GPA: 3.96 / 4.0

Selected for presentation at the 35th European Rotorcraft Forum, Sept. 2009, Hamburg, Germany

Ecole Centrale de Lyon: School of Engineering

Lyon, France

Masters Degree, Engineering

Fall 2005 – Spring 2007

Double degree with Penn State University

Degree expected Aug. 2009

Secondary School Chateaubriand

Rennes, France

University-level two-year preparation for competitive entrance exams to French engineering schools

Fall 2003 – Spring 2005

No degree offered

Secondary School Félix le Dantec

Lannion, France

French secondary school, scientific Baccalauréat with honors, French equivalent of 'A' levels.

Fall 2000 – Spring 2003

Baccalaureate with honors

WORK EXPERIENCE

Penn State University, College of Engineering: Aerospace Department

University Park, PA

Teaching Assistant

Fall 2008 - Present

- Teaching Assistant for the junior aerospace engineering course, AERSP 301 “Aerospace Structure”
- Teaching Assistant for the course AERSP 305W “Aerospace Technology Laboratory”.

Penn State University, Vertical Lift Rotorcraft Center of Excellence

University Park, PA

Research Assistant

Fall 2007 – Spring 2008

- Conducted numerical simulations on morphing helicopter rotor blades and trailing edge flaps to reduce helicopter rotor power requirements.
- Conducted a project aiming at expanding rotorcraft flight envelope using extendable chord sections, selected for the American Helicopter Society (AHS) 65th Conference in May 2009, in Grapevine, Texas
- Developed a set of analytical tools, such as a rotor wake and a comprehensive rotorcraft model, used by research group

Sagem Défense Sécurité, SAFRAN Group

Internship

Paris, France

June 2007 – Aug. 2008

- Worked on the Automated Fingerprint Identification System (AFIS) and developed a tool focusing on maintaining or improving the code quality of the system

Ecole Centrale de Lyon, French School of Engineering

Projects

Ecully, France

Sept. 2006 – May 2007

- Design and execution of an embedded system broadcasting video using Wi-Fi communication for Ecole Centrale de Lyon.
- Design of an information network using RSS feeds for CETIM (French Technical Center for Mechanical Industries).

LANGUAGES

French *Native fluent***English** *Fluent***Spanish** *Conversational***Chinese** *Basics**Studied Chinese 5 weeks in Chengdu, Sichuan region, China***TECHNICAL SKILLS**

- Familiar with Ansys, Mathematica, Matlab and FE/CFD analysis
- Expert in C/C++, Php and Python languages
- Familiar with Linux systems and networks, formerly responsible for computer servers at Ecole Centrale de Lyon
- Member of the association ECLAIR responsible for the student computer network

ACTIVITIES AND AFFILIATIONS

- American Helicopter Society, *Fall 2007 - Present*
 - Attended AHS 64th Conference in Montreal, Canada
 - Paper selected for AHS 65th Conference in May 2009, Grapevine, Texas: “*Rotorcraft Operating Envelope Expansion Using Extendable Chord Sections*”
- International Golden Key Honor Society, Penn State University Chapter, 2008
- Play acoustic guitar and dance salsa
- Member of ECL rowing team