

# KYLA STEELE

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## SELECTED QUALIFICATIONS AND PERSONAL PROFILE

- Developed and delivered adult training workshops for the Scandinavian CAAs
- Junior consultant and doctoral candidate with Dédale human factors consultancy
- Aviation Human Factors Master's degree specializing in incident reporting
- Aerospace Engineering degree with electives in human factors
- 200 hours total flying time as a private pilot and glider pilot
- Performed 250 flight hours of flight testing as a flight test engineer at Bombardier

## PROFESSIONAL EXPERIENCE

- **Rhodes & Associates Human Factors Consultants** TORONTO, SUMMER 2003  
**Human Factors Consultant Apprentice** (Part-Time)

Reviewed and compiled error analysis data and edited technical reports for a Transport Canada aviation maintenance fatigue and risk-assessment contract.

- **University of Toronto Visual Attention Lab** TORONTO, SPRING 2003  
**Volunteer Research Assistant** (Part-Time)

Ran experiments and collected data for a graduate research project. Performed briefings and de-briefings of participants.

- **Pratt & Whitney, Canada** TORONTO, 2001 - 2003

### ***Structures Analyst***

Performed engineering analysis of aircraft engine components.

### ***Test Coordinator***

Responsible for scheduling and overseeing all aspects of engine testing for Transport Canada and FAA certification: Created high level and detailed work schedules, assigned and prioritised tasks; composed technical engine build, test, and tear-down instructions, and work-orders for hardware modifications; monitored progress of test preparations and reported status to management.

- **Bombardier Aerospace** TORONTO, 1997 - 2001

### ***In-Service Engineering***

2000 - 2001

Conducted troubleshooting and re-engineering of aircraft systems to correct operational safety and efficiency issues for airlines worldwide.

### ***Flight Test Engineering***

1998 - 1999

Planned and executed certification and development flight tests for Dash-8 aircraft. Conducted 250 hours of flight testing and 125 hours of ground and hangar testing. Issued detailed work-orders for installation of instrumentation, hardware modification, and over-all aircraft configuration. Coordinated and ran briefings for pilots, mechanics, engineers and project coordinators.

### ***Avionics Integration***

1997 - 1998

Worked in cooperation with Sextant Avionique (now Thales) on the Dash-8 S400 model avionics suite. Composed and edited technical memos and documents including functional test procedures.

## **EDUCATION**

**Doctoral Candidate:** Conservatoire National des Arts et Métiers (France) expected graduation 2009

- Funded by the Foundation for an Industrial Safety Culture (FonCSI) in conjunction with Dédale and HILAS EU 6<sup>th</sup> Framework project, supervised by René Amalberti
- Thesis Topic: Models underlying safety and risk management tools in the aviation industry

**Aviation Human Factors Masters Degree:** Linköping University (Sweden), 2003 – 2005

- Funded by the Swedish Civil Aviation Authority, supervised by Sidney Dekker
- Thesis Topic: The civil aviation incident reporting system in Sweden
- Performed teaching assistant responsibilities

### **Additional University Courses:**

- Two graduate-level courses in aviation psychology and aviation human factors at Embry-Riddle Aeronautical University (USA), 2003
- Eight courses in perception, cognition, social psychology, aging, and statistics at the University of Toronto, 2002 - 2003

**B.A.Sc. in Aerospace Engineering:** University of Toronto, 2000

- Thesis Topic: Pilot Decision-Making in High Time-Pressure Conditions
- Elective course in Human Factors and Engineering Psychology

## **ADDITIONAL EDUCATION**

- Engine Maintenance courses, Pratt & Whitney Customer Training Centre (2001)
- Dash-8 Pilot Training & Avionics courses, FlightSafety International (1998, 2000)
- Private and Glider Pilot training (1989 - 1991)

## **INSTRUCTION AND PUBLIC SPEAKING EXPERIENCE**

- Developed and delivered half-day workshop on human factors and incident reporting for the joint Scandinavian staff training seminar (biannually, 2004-2007)
- Conference presentations
  - Resilience Engineering Symposium (2006, 2008)
  - European Conference on Cognitive Ergonomics (2007)
  - International Symposium on Aviation Psychology (2007)
  - European Association of Aviation Psychologists (2006)
  - Invited speaker at the Swedish Flight Operation Managers' safety seminar (2004, 2005)
  - Human Factors and Ergonomics Society Europe Chapter conference (2004, 2005)
  - Conference of the European Association for Aviation Psychology (2004, 2006)
  - International System Safety Conference (2004)
- Air cadet glider pilot at the Canadian regional air cadet gliding centres: gave safety briefings to cadets, explained and demonstrated fundamentals of flight during introductory flights

## **AWARDS AND DISTINCTIONS**

- The Human Factors and Ergonomics Society Europe Chapter exchange grant (2003)
- The Boeing Company Career Enhancement Scholarship (Women in Aviation, 2003)
- Air Cadet Private and Glider pilot training scholarships (1990, 1991)
- Governor General's Award (Ontario, Canada) for top academic achievement (1992)

## **PUBLICATIONS**

- Steele, K., & Pariès, J. (2008). Characterisation of the variation in safety beliefs across the aviation industry. *Proceedings of the 3<sup>rd</sup> Resilience Engineering Symposium*; Juan-les-Pins, France.
- Steele, K., & Dekker, S. (2008). Mapping safety and human factors assumptions across the aviation industry. *Proceedings of the 2008 Annual Human Factors and Ergonomics Society Europe Chapter*; Soesterberg, Netherlands.
- Steele, K., & Pariès, J. (2007). Barriers to safety innovation: Experiences applying the "Safety Model Based Analysis" approach in European aviation. *Proceedings of the 14<sup>th</sup> International Symposium on Aviation Psychology*; Dayton, USA.
- Steele, K., & Pariès, J. (2006). The process of tailoring models for *a priori* safety and risk management for use within industry. *Proceedings of the 2<sup>nd</sup> Resilience Engineering Symposium*; Juan-les-Pins, France.
- Steele, K. (2006). Past progress and future challenges for modelling safety and accidents. *Proceedings of the 27<sup>th</sup> Conference of the European Association for Aviation Psychology*; Potsdam, Germany.
- Steele, K. (2005). *Aviation incident reporting in practice : An emic perspective of the attitudes of pilots and the challenges for system administrators*, Masters Thesis LiTH-IKP-PR-05/020—SE. Linköping Tekniska Högskola, Linköping, Sweden.
- Steele, K., & Dekker, S. (2004). Aviation Incident Reporting Systems: A qualitative investigation from the perspective of the pilot. *Proceedings of the 26<sup>th</sup> Conference of the European Association for Aviation Psychology*; Sesimbra, Portugal.
- Steele, K., & Dekker, S. (2004). Aviation Incident Reporting in Sweden: Empirically Challenging the Universality of Fear. *Proceedings of the 2004 Annual Human Factors and Ergonomics Society Europe Chapter*; Delft, Netherlands.
- Steele, K., & Dekker, S. (2004). "Incident Reporting from an Emic Perspective." *Proceedings of the 22<sup>nd</sup> International System Safety Conference*; Providence, RI.
- Rhodes, W., Lounsbury, R., Steele, K., Ladha, N. (2004) Assessment of Fatigue Risk in Aircraft Maintenance Tasks. Transportation Development Centre, report TP 14169E. Ottawa, Canada.