

## CONTACT INFORMATION

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# RYAN C. SCHMIDT

AEROSPACE ENGINEER / CATIA V5 DESIGNER

## EDUCATION

<i>Embry-Riddle Aeronautical University (ERAU), Daytona Beach, FL</i>	<i>Degree Status</i>	<i>Date of Completion</i>
<u>Master of Science in Aerospace Engineering</u> , GPA: 4.0	In Progress	May 2009
<u>Bachelor of Science in Aerospace Engineering</u> , GPA: 3.3	Completed	May 2007
- Minor in Computer Science & Mathematics	Completed	May 2007

## ENGINEERING SKILLS

<i>Program / Skill / Knowledge</i>	<i>Skill Level</i>	<i>Experience</i>
CATIA V5 (GSD / Part & Product Design / Drafting / GSA-FEA / DMU)	Advanced	5 years
FAA Regulations & Certification (CFR / AC / ELOS)	Intermediate	1.5 years
Aero. Materials (Composites / Al / Ti / Honeycomb / Sandwich Panels)	Intermediate	2 years
Lean Engineering (Lean Principles / DFMA / 6σ / VSM / Supply Chain)	Intermediate	1 year
NEiNastran (Basic FEA Analysis) / MatLab / Maple	Basic	3 months

## GENERAL SKILLS

<i>Program / Skill / Knowledge</i>	<i>Skill Level</i>	<i>Experience</i>
Word / Excel / PowerPoint / Technical Report Writing	Advanced	8 years
Computer Hardware & Software / C / Java / Dreamweaver / Flash	Advanced	5 years

## PUBLICATIONS

*Application of the Integrated Product Team (IPT) Concept to the Re-Engine of a Very Light Jet (VLJ)*  
ICAS 2008 – 26<sup>th</sup> International Congress of the Aeronautical Sciences (ICAS)

## WORK EXPERIENCE

<b>AbM Engineering, LLC – CONSULTANT</b> , Daytona Beach, FL	September 2008 - Present
<ul style="list-style-type: none"><li>Design &amp; Certification Engineer – Aircraft Structures &amp; Performance / Aerospace Materials</li><li>Investigation of Detonation Cycle Gas Turbine (DCGT) powered truck engine.</li><li>CATIA V5 Specialist – CATIA Design / Analysis / Training</li></ul>	
<b>Embry-Riddle Aeronautical University – STAFF</b> , Daytona Beach, FL	February 2007 - Present
<ul style="list-style-type: none"><li>Research the feasibility of a re-engine design for the M.S. 760 Paris Jet.</li><li>Extensive applications of CATIA to provide solid modeling for the M.S. 760 Paris Jet.</li><li>Development of a certification plan for an STC to the M.S. 760 Paris Jet.</li></ul>	
<b>Embry-Riddle Aeronautical University – I.T.</b> , Daytona Beach, FL	May 2004 – January 2007
<ul style="list-style-type: none"><li>Supervise computer labs and maintain efficient operation.</li><li>Assist students with computer hardware and software related inquiries.</li><li>Share computer related knowledge (i.e. CATIA / C / Java / etc.) with students and/or faculty.</li></ul>	

## PROJECT EXPERIENCE

**Feasibility Study of Re-Engine of M.S. 760 Paris Jet** (February 2007 – Present)

This research project involved research into the feasibility of removing the existing internal engines of the M.S. 760 and incorporating a new conceptual pylon mounted design. CATIA was used extensively to provide solid modeling of the M.S. 760. This project incorporated experience with the following: stability and control, aerodynamics, structural design, rotor burst analysis, and FAA regulations. Due to NDA agreements, further details of this project cannot be discussed.

**Lean Engineering Project** (August 2007 – December 2007)

This project involved the investigation and creation of a Lean process of which would provide advanced multi-system analysis (i.e. FEA / CFD / etc.) throughout an existing Lean design process. Final project report is available at request.

**Aircraft Preliminary Design Project** (August 2006 – December 2006)

This project involved the conceptual design of an aircraft including design specifications, aerodynamic calculations, inboard profile and general arrangement drawings, weight and balance / stability and control / aerodynamic drag analysis, and a complete performance report. Lean Engineering process, final CATIA assembly, and report package available at request.

## OTHER EXPERIENCE

<b>General Manager – ERAU Ice Hockey Team</b> , Daytona Beach, FL	August 2004 – May 2007
<ul style="list-style-type: none"><li>Maintain efficient operation of equipment purchases, advertisement, and in-game functions/procedures.</li></ul>	