

## CONTACT INFORMATION

108 Wedge Circle, Daytona Beach, FL 32124  
christopher.cassano@erau.edu  
(H) (585) 415-7636 (W) (386)226-7722

# Christopher Cassano

## EDUCATION

<i>Degree and Institution</i>	<i>Degree Status</i>	<i>Date of Completion</i>
<b>Embry-Riddle Aeronautical University, Daytona Beach, FL</b>		
<u>Master of Science in Aerospace Engineering</u> , GPA: 4.0/4.0	In Progress	Dec 2008
<u>Bachelor of Science in Aerospace Engineering</u> , GPA: 3.6/4.0	Completed	May 2006
<b>Clarkson University, Potsdam, NY</b>		
<u>Bachelor of Science in Biology</u> , GPA: 3.2/4.0	Completed	May 2003

## COMPUTER EXPERTISE

<i>Program / Skill / Knowledge</i>	<i>Skill Level</i>	<i>Experience</i>
CATIA V5 (GSD, Part, Product Design )	Advanced	2 years
Microsoft Office (Word, Excel, PowerPoint)	Advanced	10+ years
Adobe Photoshop	Advanced	8 years
Fortran (90/95) / C	Intermediate	5 years
NEiNastran / MatLab / Maple	Intermediate	3 years

## PROJECT EXPERIENCE

### *Aircraft Re-Engine Feasibility Study*

Investigated the feasibility of an industrially funded aircraft re-engine study. The project involved extensive solid modeling of airframe structure from original engineering drawings. The project also involved preliminary structural design and rotor burst analysis, as well as exposure to 14 CFR Parts 21 and 23.

### *Lean Engineering Project*

Developed a Lean process to incorporate computational analysis into an existing design process. Designed to be accomplished in phased implementation, the process relied heavily upon training and focused on the reduction of waste.

### *Counter Rotating Compressor*

Completed a design study of a non-aspirated counter-rotating compressor. Examined the use of guide vane pre-swirl in addition to splattered rotor technology as a means of increasing performance.

### *Propulsion Preliminary Design Project*

Completed the preliminary design of a high bypass turbofan engine. The project included diffuser, compressor, turbine, and nozzle designs and incorporated three dimensional solid modeling using CATIA.

## CAREER PROGRESSION

### *TECHNICAL EMPLOYMENT*

#### *Embry-Riddle Aeronautical University – STAFF*

Daytona Beach, FL

Dec 2006 - Present

- Research the feasibility of a re-engine project.
- Assist in the creation of an FAA certification plan.
- Provide engineering support for prototype engine development and testing.
- Extensive drafting and part design

#### *Embry-Riddle Aeronautical University – Graduate Teaching Assistant*

Daytona Beach, FL

Sept 2006 – Dec 2007

- Instructed undergraduate students in experimental aerodynamic theory
- Instructed students in the use of a wind tunnel

#### *Florida Health Care Plans – Independent IT Contractor*

Holly Hill, FL

May 2006 – Sept 2006

- Installed and maintained network infrastructure
- Implemented a network infrastructure documentation program

#### *Phoenix Tool and Manufacturing – Machinist*

Gates, NY

Aug 1999 – Dec 2001

- Responsible for wire EDM and CNC setup and operation
- Performed manual machining tasks when necessary

#### *W. Alton Jones Cell Science Center – Research Intern*

Lake Placid, NY

May 1997 – Sept 1997

- Conducted NMR studies of engineered proteins for the purposes of cancer research
- Conducted bacterial growth studies

***Delphi Automotive Systems – Engineering Intern***

1994 - 1996

Henrietta, NY

- Audited facility machinery for the purposes of OSHA safety compliance
- Authored machinery lockout procedures
- Designed a battery conditioning chamber for electric vehicle use