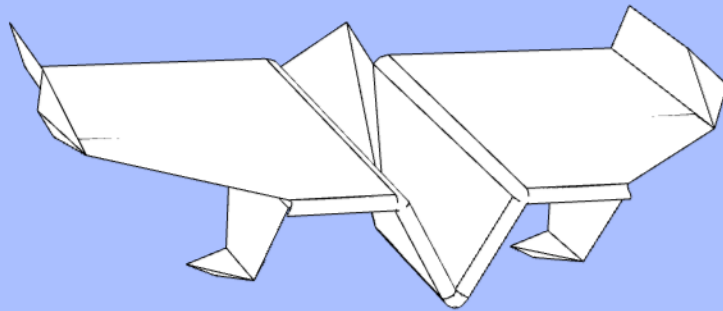


PORTFOLIO

Arlo D. Jones

CATIA / ENOVIA SME



Arlo Duane Jones

(435) 862-5875

<mailto:arlo@arlojones.com>

CATIA & ENOVIA Experience

- 10,000+ hours CATIA V5, including Knowledgeware, Part Modeling, Assembly Design, Advanced Surfacing and Part Catalog creation.
- Effective user of configuration management tools, including ENOVIA V5 LCA.
- V5 Instructor. Developed Knowledgeware course materials for Rillos Engineering.
- Expert on CATIA V4 (10 years: user, instructor and application developer).

Engineering Experience:

- Twenty-four plus (24+) years experience in the design of aerospace tooling for graphite composites, sheet metal, welded duct & wing assembly.
- Experience in managing software development projects in a team environment.
- Power user of Microsoft Word, Excel, Visio, and Power Point.
- Proficient in SQL, XML, FORTRAN, Python, Perl, Visual Basic and Java Script.

Working with others:

- Enthusiastic, self-starter, with a reputation for creative solutions to complex problems.
- Recognized for excellence as an instructor and workplace coach.
- Highly successful at liaison between disciplines, such as Engineering and Production.
- Able to work with others, prioritize tasks, and achieve best results from available resources.

Language:

- Read, write and speak Korean (한국말). Recent experience working with Korean Community in Los Angeles Area.

Education:

Weber State College (now Weber State University),
Ogden, UT; BS Manufacturing Engineering Tech., 1978

Rillos Engineering
Seatac, WA; Industrial Design Certificate (CATIA V5), July 2003

Arlo Duane Jones

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Employment:

May 2006: to Feb 2008: Manufacturing and Industrial Technologies Inc., Lake Orion, MI.

Placed at **IBM** and assigned to **The Boeing Company**, MMA Program.
PLM Specialist (thru IBM): Performed CATIA V4 to V5 Conversion & Standards
Parts Creation. Created 3D Models, Drawings and Production Illustrations.
Used ENOVIA-V5 LCA to manage part configuration and share design data.
Analyzed, improved and documented processes to better meet schedule.

May 2005 to April 2006: Kelly Automotive Services Group, Troy, MI

Providing services to **Honda Performance Development**, Valencia, CA
CATIA V4 to V5 Conversion specialist. Defined Parts, Assemblies, and created
Drawings (including illustrated parts lists) for the Honda Indy V8 Engine.

March 2005 - April 2005: DRI Inc. Boca Raton, FL

Working at: **Lockheed Martin, Palmdale, CA (Skunkworks)**
Design Engineer; Defined Ground Support Equipment for the F-35 Joint Strike
Fighter using CATIA V4.
(Project moved to Fort Worth Texas. I choose to stay in California.)

July 2002 to Present: Innovators Workshop Inc.

Chief Technical Officer: (My consulting business).
Present & former & clients include:
Rillos Engineering: (CATIA Application Developer, CATIA V5 Instructor,
CATIA V5 Course Developer, and Los Angeles Office Manager.)
Aim Aviation (Team Lead: Tooling for Cathay Pacific 747 First Class Seats)
Exotic Metals (Team Lead: A380 Bleed Air Duct Detail Design)
INCAT (V5 Instructor)

July 2000 to Jan 2001: Consultant to Dimension4, Seattle, WA.

I managed a team of four independent contractors. Together we designed,
implemented and tested an interface between a proprietary data capture system
and Lockheed PARTNOTE application in CATIA V4 using XML.

June 1978 to Sept 2002: The Boeing Company, Seattle, WA.

Software Project Manager (7 years)
Web Master (2 years)
Systems Analyst (5 years)
CAD Instructor (3 years + 5 years off hours)
Tool Engineer: graphite composites, welded duct, & assembly tooling (6 years)
Tool Liaison Engineer (1 year)

Information regarding employment **prior to 1978** is available upon request.

Arlo Duane Jones - Experience

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[Mailto://arlo@arlojones.com](mailto:arlo@arlojones.com)

Projects as a Consultant:

- **CATIA instructor:**
Taught CATIA V5 Basic, Knowledgeware and Rillos Engineering 40 day Course. Developed course material at Rillos Engineering.
- **Rillos Engineering Los Angeles Office Manager:** Set up office network. Received approval as Northrup Grumman supplier. Performed data translation and system administration Activities.
- **Aim Aviation Seattle:** (for Rillos Engineering) CATIA V5 design of Fixtures and Lay-up Molds for production of aircraft interior parts. Dataset conversion from Autocad and Solidworks and to CATIA V4.
- **Exotic Metal Forming Company (EMFCO):** (for Rillos Engineering) Modified and improved application programs for Dataset management of Airbus A380 data. Managed a team of designers creating metallic ducting datasets and drawings on CATIA V4.
- **XDT Software:** Developed a CATIA V4 application to assist in the creation of first article inspection sheets. A V5 version is currently in the works.
- **Dimension 4:** Organized and lead a team of programmers. Managed project from customer requirements thru final payment. Developed, coded and tested software to transfer scanned data into the Lockheed PARTNOTE program in CATIA. Participated in design and coding and was personally responsible for user liaison, testing, online helps and training materials.

Software Transition Activities:

- **V4 to V5 Migration:** Converted problem datasets from V4 to V5 using a variety of appropriate techniques to achieve useful models.
- **V5 Training:** Taught CATIA version 5 at Rillos Engineering, Northrup Grumman, Boeing and Lockheed.
- **CATIA V4 to V4.1.9:** Was selected to be an early adopter of version 4.1.9. Participated in courseware development and on hours training of other users.
- **CATIA V3 to V4:** Wrote Boeing's first training manual for TEXTD2. Taught off hours CATIA courses.
- **AUTOCAD to CATIA:** Responsible for "converting" the last stronghold of AUTOCAD users at Boeing to CATIA.

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Projects at Boeing:

- **CATIA Catalog Parts:** Enjoyed creating design tables and master models for electrical, mechanical and structural components.
- **Tool Design:** Responsible for the design and shop coordination of fabrication of the Drip Shield Assembly Models for the 757 and 767 flight deck.
- **Weld Jigs:** Developed applications programs for Welded Duct Tooling (Weld Jigs) on a variety of platforms, including ICAD CATIA V4.
- **Distributed Sketch:** Conversion of manufacturing sketches to digital format. Personally responsible for requirements gathering, mainframe interface, customer training, tracking database and project handoff. We scanned sketches on an as needed basis. We were meeting 98% of the customer needs for scanned data after scanning 15% of the sketches. Eventually the remaining sketches were boxed up and put in storage, eliminating over 15 file cabinets.
- **ICAD:** Co-developed an ICAD application for the design of Joggle Die Tooling. We pioneered the use of the web to launch the ICAD design. The output was a nearly complete CATIA drawing. The savings on the redesign of 150 Joggle Dies was more than \$500,000

Teams at Boeing:

- **Standard Parts (SPARTS) Change Board:** The SPARTS program is used at Boeing to define most catalogue parts for engineering and tooling. Served as the representative for tooling to the Software Change Board several times over a period of more than 10 years.
- **ICAD Core:** Monthly team meeting between the Boeing sites to discuss changes, plans and accomplishments in implementing the ICAD software. Especially focused on how to improve the interface between ICAD and CATIA. Contributed as Auburn Site Representative for over two years.
- **ASGR (Aircraft Systems Geometry & Release:** Represented the Tooling and Manufacturing organizations on a six month project to determine how best use CATIA V3 to digitally define airplane systems (tubes, ducts and wires).
- **7J7 Digital Project Definition:** Participated in the first release of a CATIA dataset for fabrication in Japan. Received recognition for participation on the team from Alan Mulally, (the mug, the plaque, the nice letter, and a dinner for us and our spouses.)
- **Weld Jig Tooling Workshop:** Co-chaired a process improvement team studying the process of welded duct fabrication.

December 14, 2004

To Whom It May Concern:

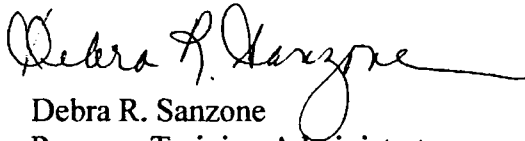
I am writing this letter of recommendation for Arlo Jones. Arlo is currently one of my Catia V5 instructors at Northrop Grumman in El Segundo, California. During the past three months Arlo has taught about one hundred student employees in my training rooms and at Incat's Torrance, California facility.

Arlo is an exceptionally talented instructor. He is dedicated, motivated and creative. I am particularly impressed with his ability to work well with the employees. The employee's at Northrop Grumman have evaluated Arlo with above average ratings. Arlo has even made connections between class studies and after hour support.

Arlo is knowledgeable and versatile in a broad range of teaching styles and strategies. He effectively incorporates this knowledge base into a variety of lessons. First, he identifies learning needs and styles of students. Then, he designs and implements instructional experiences based on his pre-assessments and the standards. Arlo is energetic and creative in his instructional presentations. In addition, he makes adjustments and modifications for students as he evaluates their learning processes.

He always takes advantage of an opportunity, he wants to experience as many teaching situations as possible, and he is willing to put in the extra time and energy to try new techniques.

Arlo seems to be a highly qualified instructor. His dedication and commitment to the teaching profession will make him an asset to any teaching program. I have been privileged to have the opportunity to work with Arlo the last three months and look forward to him instructing additional Catia V5 classes at our site.



Debra R. Sanzone
Program Training Administrator
Northrop Grumman
El Segundo, CA 90245
310.335.3167

Letter of Recommendation

Dec. 19, 2004

Dear Reader:

Arlo Jones was a student of mine in the CATIA V5 Training Program at Rillos Engineering. He knocked out all the exercises very quickly and completed some advanced solid modeling exercises in a short amount of time. His people skills and communication skills are very good. I am impressed with Arlo's work ethics and quickness in absorbing CATIA V5. Arlo has a strong background in configuring computer systems. He is also very good at figuring out the Knowledge Based Engineering and programming language associated with CATIA. He developed the CATIA V5 Advanced Knowledgeware course for Rillos Engineering and taught CATIA V5 classes last year. I would recommend Arlo for an Engineering or CAD modeling or Teaching position with any company utilizing CATIA V4 or V5.

Sincerely,

Don K. Crenshaw
CATIA V5 Instructor/Course Developer
Alliance for Corporate Education
Rillos Engineering www.v5train.com
Cell Ph. (425) 238-4693

To Whom it May Concern:

This is a letter of recommendation for Mr. Arlo Jones in his pursuit of a College level teaching position.

I have witnessed Arlo working as a Catia V5 instructor on the Northop Grumman JSF program, and feel that he is well qualified to teach at the college level. He has experience in curriculum development, and is skilled at the delivery of pertinent information.

I have also worked directly with Arlo on a project involving the programming and customization of CATIA standards. I was the beneficiary of his in-depth knowledge of the CATIA V5 product, and his diligence at completing the assignment. He made sure that he understood my requirements, did some thorough research, and got back to me with a solution in a very timely manner.

Again, I give my recommendation to Mr. Arlo Jones, and feel confident in his abilities. Please feel free to contact me for further information.

Douglas Glenn

Associate Professor
CADD Dept., Div. of Industry and Technology
El Camino College
dglenn@elcamino.edu
(310)660-3624

Award of Achievement

This Certifies that

Arlo Jones

Has successfully completed

CATIA V5 Industrial Design Certificate

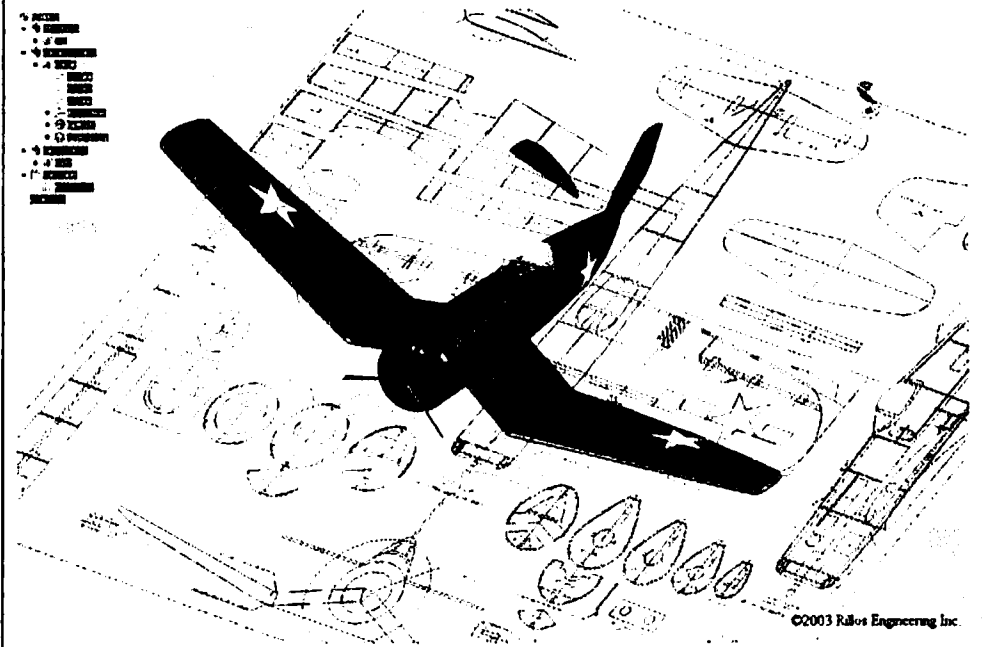
at

Rillos Engineering, Seattle, WA

Dated this 8th day of July, 2003



Kaae Rillos, Director
CATIA V5 Instruction





Recognizing exceptional performance

IBM MMA Design/Drawing Assistance Team
Arlo Jones
IBM

This award is presented to you in recognition of your outstanding performance and invaluable contributions to the IBM MMA Design/Drawing Assistance Team. Your skills and efforts have contributed immeasurably to our success. Thank you for your dedication.

Howard Wagner Jr
PLM Architecture Manager

Melanie Rider
Project Manager

