CHRISTOPHER OLSEN

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Department of Information Systems
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Education

W. P. Carey School of Business, Arizona State University, Tempe, AZ
Masters of Science in Information Management (May 2011)

DeVry University, Phoenix, AZ
Bachelor of Science in Computer Information Systems (October 2000)

Columbia Basin College, Pasco, WA
Associate in Arts & Science (June 1998)

Teaching Experience

W. P. Carey School of Business, Arizona State University, Tempe, AZ
Department of Information Systems
Lecturer Aug 2012 - Present
Faculty Associate Sep 2011 – May 2012

Courses Conducted:

- Business Database Concepts (CIS360) Spring 2021
- Business Information Systems Development II (CIS345) Spring 2021
- Business Database Concepts (CIS360) Fall 2020
- Business Information Systems Development II (CIS345) Fall 2020
- Programming for Business Analytics (CIS325) Fall 2020
- Business Information Systems Development II (CIS345) Summer 2020
- Business Information Systems Development I (CIS340) Summer 2020
- Business Database Concepts (CIS360) Spring 2020
- Business Information Systems Development II (CIS345) Spring 2020
- Business Database Concepts (CIS360) Fall 2019
- Business Information Systems Development II (CIS345) Fall 2019
- Business Information Systems Development I (CIS340) Fall 2019
- Business Information Systems Development II (CIS345) Summer 2019
- Business Information Systems Development I (CIS340) Summer 2019
- Business Database Concepts (CIS360) Spring 2019
- Business Information Systems Development II (CIS345) Spring 2019
- Business Database Concepts (CIS360) Fall 2018
- Business Information Systems Development II (CIS345) Fall 2018

- Business Information Systems Development I (CIS340) Fall 2018
- Business Process Management (CIS309) Summer 2018
- Business Information Systems Development II (CIS345) Summer 2018
- Business Information Systems Development I (CIS340) Summer 2018
- Business Process Management (CIS309) Spring 2018
- Business Information Systems Development II (CIS345) Spring 2018
- Business Information Systems Development I (CIS340) Spring 2018
- Business Process Management (CIS309) Fall 2017
- Business Information Systems Development II (CIS345) Fall 2017
- Business Information Systems Development I (CIS340) Fall 2017
- Business Process Management (CIS309) Summer 2017
- Business Information Systems Development II (CIS345) Summer 2017
- Business Information Systems Development I (CIS340) Summer 2017
- Business Process Management (CIS309) Spring 2017
- Business Information Systems Development II (CIS345) Fall 2016
- Business Process Management (CIS309) Fall 2016
- Business Information Systems Development II (CIS345) Summer 2016
- Business Information Systems Development I (CIS340) Summer 2016
- Business Process Management (CIS309) Summer 2016
- Business Information Systems Development I (CIS340) Spring 2016
- Business Process Management (CIS309) Spring 2016
- Business Information Systems Development I (CIS340) Fall 2015
- Business Process Management (CIS309) Fall 2015
- Networks/Distributed Systems (CIS430) Summer 2015
- Business Information Systems Development II (CIS345) Summer 2015
- Business Information Systems Development I (CIS340) Summer 2015
- Business Process Management (CIS309) Summer 2015
- Business Information Systems Development I (CIS340) Spring 2015
- Business Process Management (CIS309) Spring 2015
- Business Information Systems Development I (CIS340) Fall 2014
- Business Process Management (CIS309) Fall 2014
- Business Information Systems Development II (CIS345) Summer 2014
- Business Information Systems Development I (CIS340) Summer 2014
- Business Information Systems Development I (CIS340) Spring 2014
- Project Management (CIS394) Spring 2014
- Business Information Systems Development I (CIS340) Fall 2013
- Project Management (CIS394) Fall 2013
- Business Information Systems Development II (CIS345) Summer 2013
- Business Information Systems Development I (CIS340) Summer 2013
- Business Information Systems Development I (CIS340) Spring 2013
- Process Management (CIS394) Spring 2013
- Business Information Systems Development I (CIS340) Fall 2012
- Process Management (CIS394) Fall 2012
- Business Information Systems Development I (CIS340) Spring 2012

- Business Information Systems Development I (CIS340) Fall 2011

Course Developer
- Business Information Systems Development II (CIS 345) – Designed online course Spring ‘19
- Business Information Systems Development II (CIS 345) – Redesigned course transitioning to Python Spring ‘19
- Business Information Systems Development II (CIS 345) – Redesigned course expanding GUI and event-driven programming Fall ‘16
- Business Information Systems Development I (CIS 340) – Redesigned course Fall ’12
- Process Management (CIS 309) – Designed online course Fall ‘14

Information Systems Department Course Coordinator
- Business Information Systems Development II (CIS 345)
- Business Information Systems Development I (CIS 340)
- Process Management (CIS 309)

Honors Faculty: Undergraduate Honors Thesis
- Director
    - current (1)
    - completed 4/10/2014, 4/22/2014, 12/2/2016, 4/22/17, 4/26/2019
- 2nd Reader
    - current (0)
    - completed 4/22/17, 4/10/2020

Information Systems Department Committee Member
- ADBA Certificate Committee
- EAB & Council Speaker Series
- CIS360 Transition Subcommittee
- Technology Committee
- Undergraduate CIS Curriculum Re-Design Committee
- Undergraduate CIS Program Committee
- Undergraduate CIS Program Review Committee
- Undergraduate Committee

Information Systems Department Course Coordinator
- Business Information Systems Development II (CIS 345) 2018 - 2021
- Business Information Systems Development II (CIS 345) 2016 - 2017
- Business Information Systems Development I (CIS 340) 2012 - 2016
- Process Management (CIS 309) 2012 - 2018

Professional Experience

2020-Present: Chief Operating Officer, Ash Auto Group, AZ
Joined the team at Ash Auto this year working on process improvement. Leveraging my software background to develop data analysis software to support the business mission to sell acquired vehicles to customers using a unique vehicle purchasing process, and low overhead business model, in order to pass on considerable savings to our clients.

2018-2020: Software Consultant, May Clinic, AZ
Worked with Mayo clinic team to develop a website tool for prostate cancer patients. The tool takes user input and applies a diagnosis model, provided by the Mayo doctors, and returns a list of ranked treatment options for their cancer treatment. The tool is part of a research project between ASU and Mayo clinic.

2005-Present: Software Engineer, Lockheed Martin Luke AFB, AZ
Debrief System Upgrade – Redesigned debrief system to overcome synchronization issues in order to improve the system performance. Researched competing products from competitors and designed a system that leveraged state of the art projector screen paint to provide a massive screen surface at a tenth of the cost of a regular projector screen. Installed a high resolution projector and combined multiple video streams into a single output to control synchronization of the different video streams. The completed project was well received by our government customer.
Common Image Generator Interface (CIGI) – Analyzed and documented all the technical requirements for creating CIGI. Developed a system design and detailed technical design that the hardware and software teams used to develop the overall CIGI system.
Debrief System – Held the role of project lead and was responsible for project planning, task delegation, status reporting, and engineering. Created a debrief system using COTS hardware to record video output of the simulator instruments combined with a first person point of view and digitized the data for storage on a RAID. Video playback has control over play, stop, pause, rewind, fast forward, and event marking for quick review of specific events in the mission.
Master Control Station (MCS) – Designed, developed, and tested the MCS application using C#. The MCS networks all four simulators together in a shared environment and initializes each simulator's orientation along with controlling the start/stop and freeze operations for each simulator individually or as a group.
Electronic Horizontal Situation Indicator (EHSI) - Designed, developed, and integrated the host interface for the EHSI. The host interface was responsible determining the state and orientation of the EHSI and sending commands to the GUI to update the display.
Communications – Designed and developed an audio model for ASTi's communication system that allows communication from each simulator and multiple instructor stations. Built in logic to filter the location you wish to talk to along with user friendly controls of volume settings.

Responsibilities - Making corrections to the system software for problems that are reported and document changes made. Lead and participate in design, development, and implementation of development projects. Extensive experience in developing software in C/C++ for real-time embedded flight systems that run on the VxWorks environment and C# for graphical user interface applications running on Windows based systems.

2000–2005: Project Engineer, Performance Software, AZ
Projects:
RM Partition – Wrote a System Requirements Document (SRD) for the Redundancy Management partition on the Boeing 7E7 (named the 787 later) aircraft. The SRD detailed all required software functionality to be developed for the RM hardware partition within a 787 plane.
TCP/IP - Developed code for the implementation of TCP/IP in the Boeing 777 aircraft. Utilized ADA to create test environments to execute functional areas of code in the Honeywell Systems Simulator (HSS). Modified and created test definition files to ensure the code was compliant with specified requirements.
Flight Management Systems - Wrote requirement documents for the FMS functional area. Modified and developed ADA and C code according to new requirements in FMS area. Managed a team of seven on a project to fully test the C-5 flight systems and finished the project ahead of schedule to earn a 110% profit.
Flight Deck Comm. - Developed and modified code using ADA for the B777 flight deck communications that are compliant with requirements listed in the ARINC 623 document for embedded and display code. Tested code using HSS and B777 VALFAC Lab.
Flight Controls - Created test files for the new Fly-By-Wire functionality of the flight controls system. Created and modified driver files necessary for exercising the code.
Static Checker - Modified test procedures for the SAFEBUS static checker functional test plan. Developed PERL test scripts used for automating the execution of the functional test plan.
JUCAS – Developed C code for the startup BIT testing routines for the Joint Unmanned Aircraft System. BIT code initialized all hardware components to prepare for the loading of software applications.
Summary - All together I have worked with software for the B777, MD-95, B787, KC-10, C5, C130, and JUCAS. This company gave me five solid years of avionics experience and an expertise in flight systems.

2000–2000: Programmer, Aspen Systems, AZ
Utilized BASIC to create and modify code in the Aspen ordering system. Customized menus, tools, and forms for clients. All software testing was performed on a UNIX platform. Interacted with customers to define and implement the desired requirements.

Documents Authored:

Lockheed Martin, 2012. Manipulative God's Eye and Aural Cue Capability
Lockheed Martin, 2011. Risk Assessment for Instructor Operator System
Lockheed Martin, 2011. TIR-DBRF-CLO-11003 New RWR Video for Debrief
Lockheed Martin, 2011. Risk Assessment for Debrief System
Lockheed Martin, 2011. Detailed Design Document for Debrief Upgrade
Lockheed Martin, 2010. Detailed Design Document for CIGI
Lockheed Martin, 2010. System Design Document for CIGI
Lockheed Martin, 2010. TIR-OPS-CLO-10003 SimAuthor Interface Procedures
Lockheed Martin, 2007. Computer System Operators Manual (CSOM) for Master Control Station (MCS)
Lockheed Martin, 2007. Software User's Manual (SUM) for MCS
Lockheed Martin, 2007. CSOM for ASTi Radio Communication System
Lockheed Martin, 2007. SUM for ASTi Radio Communication System
Lockheed Martin, 2006. TIR-MCS-CLO-06004 ASTi Startup and Debug
Lockheed Martin, 2006. TIR-OPS-CO-07002 MCS ASTi Radio

Professional Memberships:

Project Management Institute (PMI)	2010 - 2019
Association of Business Process Management Professionals	2010 - 2015
Information Systems Audit and Control Association (ISACA)	2010 - 2011

Certificates:

CompTIA Security Plus	December, 2019
SA-200-S10 System Administration for Solaris 10 part 1	August, 2010
General Purpose Platform, VxWorks Edition, BSP	July, 2006
UNIX Survival Skills	August, 2000
Solaris Essentials	August, 2000

Software Experience

ADA	ACM	ASP .Net	ASTi MBV
Basic / QBasic	C / C++ / C#	CICS	COBOL
DB2 / SQL	GitHub	HTML / CSS	IMS
Java	JavaScript	JCL	PERL
Python	UNIX / Linux	Visual Basic	VMS