

Ulysses S. Dotson Jr.
Software Engineer

Education

MS in Computer Science - Texas Southern University, Houston, TX 2006

BS in Computer Science - Texas Southern University, Houston, TX 2002

Computer Languages, Applications and Operating Systems

Microsoft Windows , DOS, Unix/Linux, I-OS, Android, KDE, Shell Scripts (csh, bsh, Korn), Microsoft Visual Studio, wxWindows, Motif, X-Windows, C/C++, GDK/GTK, Java SE, Java EE, Cold Fusion, Dreamweaver, Visual Basic, XML, HTML 5, jQuery, jQuery Mobile, Ajax, SQL, FORTRAN, Perl, PHP, UML, Rational Rose, Poseidon, Subversion, Objective-C, R/R-Studio, OpenMP, MS Office

Scholarly and Professional Publications

Dotson, Ulysses Javadian, Mohsen, Lee Morin; CBT for Space Shuttle Instrument Panel - Visual Basic

Computer based training software to help space shuttle astronauts learn instrument panel command codes. 2001.

Dotson, Ulysses Javadian, Mohsen, Lee Morin; "Russian Displays CBT" - Visual Basic
Computer based training software to help space station astronauts and cosmonauts learn the correct translations between the Russian and English displays. 2001.

Dotson, Ulysses Javadian, Mohsen, Lee Morin; "Orbiter Panels CBT" - Visual Basic
Computer based training software to help space shuttle astronauts learn locations of all space shuttle display panels. 2001.

Dotson, Ulysses; Javadian, Mohsen Phillips, Greg; Lebby, Sebastian, Lee Morin "ADI Ball CBT"
– C++/Direct X

Computer based training software to help space shuttle astronauts practice flight simulations using a joystick. 2002.

Dotson, Ulysses; Javadian, Mohsen; Phillips, Greg "Propellant Usage and MassAnalysis" –
C/WxWindows

Software helps flight design analysts determine propellant usage for the development of shuttle flight plans. 2003.

Dotson, Ulysses; Javadian, Mohsen; Phillips, Greg "Pprod Generator" C/Perl
Software generates reports for flight analysts. 2004.

Dotson, Ulysses; Caro, Samuel "Rapid Depressurization Tool"

C++/Perl/GDK/GTK

Software for International Space Station flight controllers to project capabilities to re-ingress an ISS module in the event that an overboard-atmospheric leak. 2007.

Dotson, Ulysses; Ngyuen Bryant "Intra-vehicular Tissue Equivalent Proportional Counter (IV-TPEC) Commanding Tool Prototype" - C++/GDK/GTK

Software for International Space Station flight controllers to send commands to vehicles. 2011

Scholarships, Honors and Awards

Space Shuttle Columbia Accident Investigation Recognition 2005

ER III Software Re-host Award 2007

Rapid Depressurization Team Performance Award 2008

Mission Control Center Re-host Team Award 2008

International Space Station 6-Person Crew Award 2009

NASA MWSOR Project Development Team Performance Award 2010

SAR Team Performance Award May 2015

SAR Team Performance Award June 2016

Employment

Texas Southern University

College of Science and Technology

Department of Computer Science

Houston, TX

Visiting Instructor, August 2006 – August 2011

Adjunct Instructor

January 2013 - May 2013, January 2015 - present

United Space Alliance Space Operations LLC

Houston, TX

Software Engineer, January 2000 – 2013

Lockheed Martin

Houston, TX

Software Engineer, January 2014 – August 2016

Leidos

Houston, TX

Software Engineer, January 2014 – August 2016

Ulysses S. Dotson and Associates

Houston, TX

Certified Residential Appraiser, June 1999 – August 2006

Research Interests

- Software Engineering
- Software Construction
- Mobile Phone Application Development
- Machine Learning
- Data Mining