

**Ulysses S. Dotson Jr.**  
**Software Engineer**  
**Lockheed Martin**

### **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 2015

### **Employment**

Texas Southern University  
College of Science and Technology  
Department of Computer Science  
Houston, TX  
Position: Visiting Instructor, August 2006 – August 2011, January 2013 - May 2013

United Space Alliance Space Operations LLC  
Houston, TX  
Position: Software Engineer, January 2000 – 2013

Lockheed Martin  
Houston, TX  
Position Software Engineer, January 2014 – present

Ulysses S. Dotson and Associates  
Houston, TX  
Position: Certified Residential Appraiser, June 1999 – August 2006

### **Research Interests**

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