# Mike Fitzgibbon

## Education

*Sep, 1981 - May, 1984*  **University of Arizona**
BS Physics

## Experience

*Nov, 1997 – present*  **University of Arizona | LPL |Boynton Group**
*Sep, 2015 – present*  Software Engineer, Lead
- Osiris-Rex: Calibration and Validation Lead
- Osiris-Rex: Primary OCAMS Operations Engineer
- Osiris-Rex: Ground Software Development

*Feb, 2000 – Sep, 2015*  Systems Programmer, Pr.
- Osiris-Rex: OCAMS flight software and ground support
- MSL: DAN ground data support
- Messenger: XRS and GRS ground data support
- LRO: LEND ground data support
- Phoenix: TEGA II flight software and ground data support
- Odyssey: GRS ground data support

*Nov, 1997 – Feb, 2000*  Systems Programmer, Sr.
- Odyssey: GRS flight software and ground support
- MPL: TEGA flight software and ground support

*Jan, 1997 – Nov, 1997*  **University of Arizona | LPL West | Broadfoot Group**
Applications Systems Analyst, Sr.
- STS-85: GLO-5 & 6 and UVSTAR 2 flight software and ground support
- Local PC tech support

*Jul, 1994 – Jan, 1997*  **University of Arizona | URIC | Broadfoot Group**
Systems Programmer
- STS-74: GLO-4 flight software and ground support
- STS-69: GLO-3 and UVSTAR flight software and ground support
- STS-63: GLO-2 ground support
- Design and code misc. application software
- Local PC tech support

*Sep, 1983 – Jul, 1994*  **University of Arizona | LPL West | Broadfoot Group**
*May, 1992 – Jul, 1994*  Systems Programmer
- STS-63: GLO-2 flight software
- STS-53: GLO flight software and ground support
- Modify and debug  lab instrument control software
- Local PC tech support

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| *Oct, 1988 – May, 1992* | Computer Software Specialist I |

- STS-53: GLO flight software
- STS-39: AIS flight software and ground support
- Local PC tech support

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| *Sep, 1984 – Oct, 1988* | Programmer II |

- STS-39: AIS flight software
- Voyager 1 & 2: UVS data reduction

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| *Sep, 1983 – Sep, 1984* | Student Programmer |

- Voyager 1 & 2: UVS data reduction
- Venus atmospheric modelling

## Skills

- Software design, coding, maintenance, and debugging
  - JavaScript w/Node
  - Tcl/Tk
  - VML from MGSS, for spacecraft procedural blocks and sequences
  - IDL from L3Harris Geospatial, originally RSI then Exelis Visual Information Solutions
  - SQL
  - C/C++
  - Perl
  - Python
  - FORTRAN
  - Java
  - Basic
  - Assembly language: 80x86, 8051, 680x0, and 68332
  - Unix shell: Bash, tcsh
- Electronics
  - Schematics reading
  - Oscilloscope use
  - Rough soldering
- Embedded systems
  - EPROM/PAL/FPGA programming
  - Cleanroom procedures
  - PC hardware
  - SCSI bus
  - VME bus
  - Cross compiling
- NASA procedures and payload interfaces
- Operating Systems
  - MS Windows
  - Unix/Linux
  - DOS
  - VxWorks