

# William Fitts

## Project Manager / Programmer Analyst

Havertown, PA - Email me on Indeed: [indeed.com/r/William-Fitts/be70a75859f47973](https://www.indeed.com/r/William-Fitts/be70a75859f47973)

PhD in Anthropology with background in software development, project management, and scientific research. Extensive experience supporting business and research projects. Skilled at creating high quality, innovative solutions. Adept at communicating complex ideas to cross disciplinary audiences. Proven records of scientific research and project management. Experienced in teaching and mentoring.

### WORK EXPERIENCE

#### Software Engineer

CHI Systems, Inc. - Plymouth Meeting, PA - March 2013 to Present

##### Accomplishments

##### Project Leadership:

Technical lead on HapMed Tourniquet trainers. Determined goals and direction of future versions. Identified features to update. Worked with subcontractors to update product plastics and electronics

Wrote project proposals for new business contracts. To function as principal investigator on successful proposals

##### Software Development and Data Analysis:

HapMed Tourniquet Trainers. Updated and revised Microchip PIC firmware in C. Rewrote Android remote controller software. Verified and updated human physiology model.

Twitter data collection and analysis. Maintained and updated data collection software for capturing tweets in Java, PHP, and MySQL. Ran and verified tweet classification. Performed preliminary analysis on tweet classification.

Intelligence reporting software. Wrote triple store database integration software in java and javascript. Helped to develop project data ontology. Researched and selected publicly available data to describe state of target countries.

#### Senior Programmer Analyst

Lustick Consulting - Ardmore, PA - March 2013 to May 2013

##### Accomplishments

- Helped to develop validation and verification methodology for Social Sciences as part of Lockheed Martin's MESA project

- Designed and implemented a distributed computing system with web based control and monitoring for running agent based models, using PostgreSQL, PHP and shell scripts as part of contract with the Defense Department and Lockheed Martin W-ICEWS project

Created Drupal based report system for providing results and analysis of agent based models

- Performed updates and added features to agent based modeling software in C and TCL

- Maintained and managed IT infrastructure including Windows, Macintosh and Linux desktop computers, Linux server, and Linux based distributed processing system

- Developed GIS as data source for agent based model of American Elections

#### Service Manager

GRID SIGN SYSTEMS - Chester Springs, PA - April 2011 to May 2012

- Managed service requests for storefront signage on all Verizon Wireless stores west of the Rocky Mountains.
- Created Microsoft Access based tool for organizing subcontractors and service locations

## **Project Manager**

Global Internet Management - Bala-Cynwyd, PA - July 2010 to November 2010

- Oversaw the accounts of 30 private schools throughout the country
- Provided technical support, assisted with design and construction of websites

## **Research Associate, Post-Doctoral Fellow, Educational Fellow, Research Assistant**

MUSEUM APPLIED SCIENCE CENTER FOR ARCHAEOLOGY (MASCA) - Philadelphia, PA - July 1996 to June 2009

Project Management and Technical Support:

- Managed SiteMap Surveying Equipment rental service
- Provided training and technical support to SiteMap customers
- Wrote and maintained SiteMap documentation for all versions of the software

Research related:

- Received Kaplan Foundation grant for developing new technologies in archaeology
- Conducted two seasons of dissertation field research with multiple member teams

Developed and implemented surveying strategies for multiple archaeological projects including a long term research project in Kenya

Native Application Development:

- Developed initial version of SiteMap archaeological surveying software for handheld data collectors and VectorWorks CAD software using BASIC and PASCAL
- Implemented complete rewrite of SiteMap surveying software using C and PASCAL
- Maintained and expanded SiteMap archaeological surveying software, bug fixes and new features C, Java, awk, PHP, PASCAL, and shell scripts

Web Application Development:

- Designed and developed real time database integration for the SiteMap software running on Palm OS devices using PHP and MySQL
- Helped to develop online post-excavation database interface using PHP, MySQL, and Javascript by developing human interface
- Designed and implemented MySQL databases with web interface for research projects

Multimedia Application Development:

- Developed virtual site walk through for exhibits using X3D
- Developed networked interactive kiosk system for Roman Glass exhibit using MacroMedia Director and presented system to Computer Applications in Archaeology conference.

## **EDUCATION**

### **Ph.D. in Anthropology**

University of Pennsylvania  
2002

### **M.A. in Anthropology**

University of Pennsylvania  
1993

### **B.A. in Anthropology**

University of Pennsylvania  
1992

## SKILLS

Scientific Research, Programming, Web Development, Application Development, Proposal Writing, Project Management, Mentoring, Linux Administration

## ADDITIONAL INFORMATION

### Relevant Skills

#### Operating Systems:

Mac OS X, BSD Unix, Linux, and Windows

#### Programming Languages:

C, Java, XML, X3D, PASCAL, BASIC, awk Shell Script, Objective C, and basic knowledge of Python, C++, HTML, HTML5, PHP, Javascript, and CSS

#### Creative Software:

Adobe Creative Suite, Blender, and Quark XPress

#### Database Software:

Access, Postgres, MySQL, and FileMaker Pro

#### Technical Software:

Office, VectorWorks (CAD), ArcView, and GRASS (GIS)

#### Surveying Skills

Surveying, Total Stations, GPS, 3D Laser Scanners, Soil Resistivity, and Magnetometry

#### Personal Skills:

Writing, research, technical support services, and teaching and mentoring