Contractor's Progress Report (Technical and Financial) CDRL A001

For: Safe Surgery Trainer

Prime Contract: N00014-14-C-0066

For the Period June 1, 2014 to June 30, 2014
Submitted: 15 July 2014

Prepared for:
Office of Naval Research (ONR)
875 N. Randolph Street
Arlington, VA 22203-1995

Prepared by:
Alion Science and Technology Corporation
5365 Robin Hood Road, Suite 500
Norfolk, VA 23513

Contract Program Manager	**Contract Administrator**
Curtiss Murphy	**Kimberly Thompson**
(757) 857-5670, Ext. 308	**(757) 857-5670, Ext. 366**
(757) 857-6781 (fax)	**(757) 857- 6781 (fax)**
cmurphy@alionscience.com	**kthompson@alionscience.com**

1. REPORT DATE **15 JUL 2014**	2. REPORT TYPE	3. DATES COVERED **01-06-2014 to 30-06-2014**
4. TITLE AND SUBTITLE **Safe Surgery Trainer**		5a. CONTRACT NUMBER
		5b. GRANT NUMBER
		5c. PROGRAM ELEMENT NUMBER
6. AUTHOR(S)		5d. PROJECT NUMBER
		5e. TASK NUMBER
		5f. WORK UNIT NUMBER
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) **Alion Science and Technology Corporation,5365 Robin Hood Road, Suite 500,Norfolk,VA,23513**		8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)
12. DISTRIBUTION/AVAILABILITY STATEMENT **Approved for public release; distribution unlimited**		
13. SUPPLEMENTARY NOTES		
14. ABSTRACT		
15. SUBJECT TERMS		

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT **unclassified**	b. ABSTRACT **unclassified**	c. THIS PAGE **unclassified**	**Same as Report (SAR)**	**5**	

Medical Modeling - Safe Surgery Trainer

This Monthly Progress Report is provided in accordance with the contract CDRL.

1) **Contract Period of Performance**: 12 March, 2014 to 30 September, 2015

2) **Cost (Estimated financials may differ from actual invoice)**

   a) Total Amount Funded to date: $910,256.00

   b) Estimated Reporting Period Expenditures $63,265.30

   c) Estimated Cumulative Expenditure $107,669.19

   d) Estimated Remaining Funds To Completion $802,586.81

3) **Progress and Accomplishments During Report Period**

   a) Program Management – Ongoing communication and project management with project team and sub-contractors. Ongoing outreach with medical centers (see below).

      i) Produced the SST Project Management Plan, as part of CMMI-3 process.

      ii) Ongoing interactions with medical representatives that were interested in or attended the SST StoryJam.

         (1) StoryJam Participating organizations included: Portsmouth Naval Hospital, Langley AFB Hospital, Fort Eustis McDonald Healthcare, Eastern Virginia Medical School, Maryview Hospital, Mary Immaculate Hospital, and the Children's Hospital of the King's Daughters.

      iii) Continued outreach to the VA, Navy, Army, Airforce, and civilian healthcare organizations to encourage participation and alignment.

   b) Prototype Development – Continued definition of the software tool chain and team development process. Researched character avatars and animations. Laid plans and began development toward initial baseline capability. Defined avatar specs.

      i) Delivered v1.0 of the Software Requirements Document for SST.

   c) Instructional Design and Healthcare Research – Developed two scenarios. Developed avatar characteristics, perspectives and backstory. Began developing opening scene.

      i) Developed the Story Jam Report (aka Story Bible) which became the basis for scenario development.

   d) Research Studies – Submitted initial IRB, began drafting measures. Ongoing research participation in the scenario design. Ongoing interaction with organizations willing to participate-in or support research.

4) **Work in Progress / Plans for Next Month**

a) Program Management - Continue identifying communication channels, managing contracts, and coordinating with team members and outside participants. Continue involving team members and stakeholders in design, testing, and development.

b) Prototype Development – Continue developing core architecture. Begin development of game-flow and initial interfaces for conversations. Begin process of defining art style. Continue building core infrastructure, user-interface, and scenario tools.

c) Instructional Design and Healthcare Research –Select and refine target scenario. Formalize the scenario's characters, backstory, and teaching points. Formalize the Learning Objectives.

d) Research Studies – Work to refine IRB. Draft additional measures for studies.

5) **Milestones / Deliverables**

Name/Description	Date (Target or Actual)	Notes/Status
Project Management Plan	**DONE:** May 28, 2014	**COMPLETE**
Reports	15th of each month	This document
Presentation Materials	As appropriate	ONR Kickoff Brief
Software Requirements Document	**Target:** Nov 30, 2014	
Scenario Design Document	**Target:** Sept 30, 2014 & June 30, 2015	
Prototype - Executable	**Target:** December, 2014, May, 2015, and Aug, 2015	
Prototype - Source	**Target:** Sept 30, 2015	
Research Data	**Target:** Sept 30, 2015	
Final Report	**Target:** Sept 30, 2015	
Milestone – Initiation	**DONE:** May 31, 2014	**COMPLETE**
Milestone – Iteration 1	**Target:** Dec 1, 2014	
Milestone – Iteration 2	**Target:** Apr 30, 2015	
Milestone – Iteration 3	**Target:** July 31, 2015	
Milestone – Conclusion	**Target:** Sept 30, 2015	
Milestone – ONR Kickoff	**DONE:** Apr 22, 2014	**COMPLETE**
Milestone – StoryJam	**DONE:** May 25, 2014	**COMPLETE**

6) **Risks/Issues/Concerns/Problems**

a) None.

7) **Travel Accomplished**

a) None this period.

8) **Planned Travel**

a) None this period.

9) **Related Activities**

a) Submitted abstract for International Modelling and Simulation in Healthcare (IMSH) 2015 conference, New Orleans, Louisiana, Jan 10-14, 2015.
b) Presented SST concepts in a brief at the M&S Southwest Modeling and Simulation Conference in Scottsdale, Arizona, Mar 12, 2014.