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

For: Safe Surgery Trainer

Prime Contract: N00014-14-C-0066

For the Period June 1, 2015 to June 30, 2015
Submitted: 15 July 2015

Prepared for:
Office of Naval Research (ONR)
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### Safe Surgery Trainer

**Report Date:** JUL 2015  
**Report Type:**  
**Dates Covered:** 01-06-2015 to 30-06-2015

**Performing Organization Name(S) and Address(ES):**
Alion Science and Technology Corporation, 5365 Robin Hood Road, Suite 500, Norfolk, VA, 23513

**Abstract:**
Approved for public release; distribution unlimited

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- a. Report: unclassified
- b. Abstract: unclassified
- c. This Page: unclassified

**Limitation of Abstract:** Same as Report (SAR)

**Number of Pages:** 6

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*Standard Form 298 (Rev. 8-98)*
Prepared by ANSI Std Z39-18
Medical Modeling - Safe Surgery Trainer

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


2) Cost (Estimated financials may differ from actual invoice)
   a) Total Amount Funded to date: $910,256.00
   b) Estimated Reporting Period Expenditures $72,062.03
   c) Estimated Cumulative Expenditure $769,033.68
   d) Estimated Remaining Funds To Completion $144,222.32

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). Ongoing project management according to Alion’s CMMI Level 3 processes.
      i) Prepared, organized, and conducted studies at Langley Air Force Hospital (June 24-25) with additional participation from Fort Eustis.
      ii) Worked to secure involvement of Portsmouth Naval Hospital – This has become a MAJOR risk (see below).
      iii) Ongoing interactions with medical representatives that were interested in or attended the SST StoryJam. 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.
   b) Prototype Development – Minor adjustments to missions, scenarios, user interface, fun-facts mini-game, and 4th scenario in preparation for the studies.
   c) Instructional Design and Healthcare Research – Basic monitoring and testing of scenario materials to ensure gameplay, scenarios, and conversations match terminal learning objective: Facilitate Psychological Safety.
   d) Research Studies – Prepared, organized, and conducted studies at Langley AF Hospital, June 24-25. Managed IRB. Worked with Portsmouth regarding upcoming 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 testing, development, and research.
b) Prototype Development – Minor revisions to the software in preparation for the additional studies as part of Iteration 3.

c) Instructional Design and Healthcare Research – Continue finalizing scenarios, conversations, and learning objectives.

d) Research Studies – Coordinate with participating organizations regarding IRB and 2nd phase of studies, including: Langley, Portsmouth Naval, and the VA. Produce first report. Conduct 2nd study.

5) Milestones / Deliverables

<table>
<thead>
<tr>
<th>Name/Description</th>
<th>Date (Target or Actual)</th>
<th>Notes/Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Management Plan</td>
<td>DONE: May 28, 2014</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>Reports</td>
<td>15th of each month</td>
<td>This document</td>
</tr>
<tr>
<td>Presentation Materials</td>
<td>As appropriate</td>
<td>ONR Kickoff Brief</td>
</tr>
<tr>
<td>Software Requirements Document</td>
<td>Target: Nov 30, 2014</td>
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<tr>
<td>Prototype - Source</td>
<td>Target: Sept 30, 2015</td>
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<tr>
<td>Research Data</td>
<td>Target: Sept 30, 2015</td>
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<tr>
<td>Milestone – Initiation</td>
<td>DONE: May 31, 2014</td>
<td>COMPLETE</td>
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<tr>
<td>Milestone – Iteration 1</td>
<td>DONE: Dec 1, 2014</td>
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<tr>
<td>Milestone – Iteration 2</td>
<td>DONE: Apr 30, 2015</td>
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<tr>
<td>Milestone – Iteration 3</td>
<td>Target: July 31, 2015</td>
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<td>Milestone – Conclusion</td>
<td>Target: Sept 30, 2015</td>
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<td>Milestone – ONR Kickoff</td>
<td>DONE: Apr 22, 2014</td>
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<tr>
<td>Milestone – StoryJam</td>
<td>DONE: May 25, 2014</td>
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6) Risks/Issues/Concerns/Problems

a) PORTSMOUTH NAVAL HOSPITAL – Discussions with Portsmouth are continuing. Commander Cunningham and Commander Hawkins have coordinated to get approval to use UCF’s IRB. Now we are attempting to coordinate logistics. We are also in coordination with the VA and the Children’s Hospital of the King’s Daughters to determine a backup plan. This is a MAJOR issue.

b) Still need a transition agreement or memorandum with Portsmouth Naval Hospital. Working with new XO, Capt Smith. Will also begin work to brief/update the new CO, Capt Vai. (Note – see October report for more detailed analysis of previous risk)

7) Travel Accomplished
a) I/ITSEC, Dec 1 – Dec 4, Orlando Florida. Included labor hours for onsite SST effort such as conducting the field study. No actual travel budget.
b) IMSH, Jan 12-14, New Orleans, Louisiana. Includes labor hours for onsite SST demonstrations and meetings. No actual travel budget.
c) Langley AF Study, Hampton, VA. UCF researchers flying to Virginia to conduct studies.

8) Planned Travel

a) Travel to Norfolk (or other) by UCF research partners, in August for 2nd study.

9) Related Activities

a) Submitted presentation for I/ITSEC 2015 tutorial, “There and Back Again – A Journey of Games, Communication, and Innovation.” Abstract was accepted. Submitted power point presentation on June 12.
c) Presented at the Design of Learning Games Community Workshop, at I/ITSEC, Wednesday, Dec 3rd.
d) Conducted Field Study from the Alion booth at I/ITSEC 2014 – only such study of the conference!