Gregory **Lemieux**

COMPUTATIONAL ENGINEER

1113 Channing Way

1-510-847-6519 | gregory.lemieux@gmail.com | glemieux.github.io | glemieux

Education

Purdue University

M.S. INTERDISCPLINARY ENGINEERING   *2017-01 — Present*

Boston University

B.S. AEROSPACE ENGINEERING   *1997-09 — 2002-05*

Skills

Scientific Programming   Matlab/Simulink, Julia, Python, C, Fortran
Source Control   Git, SVN

Experience

SSL

SYSTEMS ENGINEERING SPECIALIST   *2012-04 — Present*

- Developing next-generation orbit simulation code for future SSL mission validation and rehearsals.
- Responsible for the next-generation on-board flight software orbit estimation filter.
- Founding member of the Guidance, Navigation and Control Software Development Working Group.
- Built Julia and Jupyter-based mission analysis tools for future SSL missions.
- Mission analysis for the Restore-L program.

Space Science Laboratory

RESEARCH AND DEVELOPMENT ENGINEER   *2008-06 — 2012-04*

- Developed science data accumulation forecasting tool to aid in planning mission critical science collection.
- Integrated DSN Service Scheduling Software into active mission operation scheduling process.
- Scheduled ARTEMIS mission supports including critical Lunar Orbit Insertion.
- Contributed to the Deep Space Network Scheduling Advisory and Mid-range Management Groups.

Janos Technology

OPTO-MECHANICAL ENGINEER   *2003-12 — 2006-05*

- Represented the engineering department as a member of the company-wide Quality Control Committee seeking AS9100 compliance.

Center for Space Physics

MECHANICAL ENGINEER   *2001-09 — 2003-06*

Service

Unitarian Universalist Church of Berkeley

SAFETY IMPLIMENTATION TEAM MEMBER   *2017-09 — Present*

- Trained Family Ministry and Religious Education Volunteers on Emergency Evacuation procedures.

Honors & Awards

INTERNATIONAL

2016-01   **Apogee Award**, SSL
2008-01   **ARTEMIS Extension**, NASA

DOMESTIC

2016-01 **Apogee Award,** SSL
2008-01 **ARTEMIS Extension,** NASA

Writing

SSL Commercial Geosynchronous Spacecraft Orbit Raising Considerations *http://www.univelt.com/book=5817*

PRINT(WRI.PUBLISHER ? WRI.PUBLISHER.NAME : 'UNKNOWN') *2016-01*

Survey findings from all SSL launches since the 1990s.

THEMIS Mission Networks Expansion – Adding the Deep Space Network for the ARTEMIS Lunar Mission Phase *https://arc.aiaa.org/doi/10.2514/6.2010-1934*

PRINT(WRI.PUBLISHER ? WRI.PUBLISHER.NAME : 'UNKNOWN') *2010-01*

Discussion of the integration of the Deep Space Network software and processes for the ARTEMIS mission extension.