GREGORY LEMIEUX   COMPUTATIONAL ENGINEER

gregory.lemieux@gmail.com   1.510.847.6519   http://glemieux.github.io

Astronautics professional with a broad technical backround working towards Computational Engineering degree. Excellent communicator within commercial, manufacturing and research environments; Proven ability to adapt to changing responsibilities based on evolving project requirements with a diverse skill set developed through participation in multiple stages of spacecraft design, development, and operations.

</> SKILLS

SCIENTIFIC PROGRAMMING   MATLAB/SIMULINK JULIA PYTHON C FORTRAN

SOURCE CONTROL   GIT SVN

OPERATING SYSTEMS   LINUX MACOS WINDOWS

🏢 EMPLOYMENT

Systems Engineering Specialist, SSL

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.

Research and Development Engineer, Space Science Laboratory

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.

Opto-mechanical Engineer, Janos Technology

2003-12 — 2006-05

- Designed infrared lens assemblies for commercial, defense, and research applications.
- Represented the engineering department as a member of the company-wide Quality Control Committee seeking AS9100 compliance.

Mechanical Engineer, Center for Space Physics

2001-09 — 2003-06

- Designed and developed the vacuum-sealed opto-mechanical assembly for the main science payload for the SPIDR NASA SMEX mission proposal.

🎓 EDUCATION

Purdue University
Part-time, customized, distance program with focus on Computational Engineering.

Stanford University

Santa Clara University

B.S. Aerospace Engineering, Boston University

👤 SERVICE

Safety Implimentation Team Member,
UUCB

The Safety Implimenation Team is responsible for educating all church groups on the Safety Plan requirements.

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

Social Media Team Member,
UUCB

Administrative member of the church Social Media Team. Responsible for training, technical support, and analytics reporting to the church Program Council.

✏️ WRITING

SSL Commercial Geosynchronous Spacecraft Orbit Raising Considerations,

Survey findings from all SSL launches since the 1990s.

THEMIS Mission Networks Expansion – Adding the Deep Space Network for the ARTEMIS Lunar Mission Phase,

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

🏆 RECOGNITION

Asterism Award, SSL

Peer-to-peer recognition for developing and delivering introductory training material for new orbit dynamics group employees.

Apogee Award, SSL

Received for contributions to a 2013 NASA Institute for Advanced Concepts (NIAC) proposal for a deep space communications architecture concept.

ARTEMIS Project Recognition, Space Sciences Laboratory

2010

For contributions to the Lissajous and Lunar Orbit Phases.