GREGORY LEMIEUX

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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.

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SKILLS

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

EMPLOYMENT

***Systems Engineering Specialist*, SSL**

Dynamics and Controls Engineering, Mission Analysis and Design 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**

Flight Engineer and Mission Scheduler for the THEMIS mission and ARTEMIS extension. 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**

Designed infrared lens assemblies for commercial, defense, and research applications. 2003-12 — 2006-05

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

***Mechanical Engineer*, Center for Space Physics**

Designed and developed the vacuum-sealed opto-mechanical assembly for the main science payload for the SPIDR NASA SMEX mission proposal. 2001-09 — 2003-06

EDUCATION

***M.S. Interdiscplinary Engineering*, Purdue University**

Part-time, customized, distance program with focus on Computational Engineering. 2017-01 — Present

***B.S. Aerospace Engineering*, Boston University**

1997-09 — 2002-05

SERVICE

***Safety Implimentation Team Member*, Unitarian Universalist Church of Berkeley**

The Safety Implimenation Team is responsible for educating all church groups on the Safety Plan requirements. 2017-09 — Present

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

***Social Media Team Member*, Unitarian Universalist Church of Berkeley**

Administrative member of the church Social Media Team. Responsible for training, technical support, and analytics reporting to the church Program Council. 2018-07 — Present

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WRITING

***SSL Commercial Geosynchronous Spacecraft Orbit Raising Considerations*, UniveIt**

Survey findings from all SSL launches since the 1990s. 2016

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

Discussion of the integration of the Deep Space Network software and processes for the ARTEMIS mission extension. 2010

RECOGNITION

***Asterism Award*, SSL**

Peer-to-peer recognition for developing and delivering introductory training material for new orbit dynamics group employees. 2015

***Apogee Award*, SSL**

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

***ARTEMIS Extension*, NASA**

For work on lunar ARTEMIS extension. 2008