Gregory **Lemieux**

Computational Engineer

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Education

Purdue University

M.S. Interdiscplinary Engineering — *2017-01 — Present*

Boston University

B.S. Aerospace Engineering — *1997-09 — 2002-05*

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*

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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.