

Gregory Lemieux, Computational Engineer

CONTACT

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[GitHub: glemieux](#)

SUMMARY

Astronautics professional with a broad technical background 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

EDUCATION

Purdue University 2016-09 — Present

M.Sc. *Interdisciplinary Engineering*, GPA: 3.2

Stanford University 2015-06 — 2015-08

Introduction to Linear Dynamical Systems (EE263)

Santa Clara University 2014-09 — 2015-05

Linear Algebra I (AMTH 245), Linear Algebra II (AMTH 246)

Boston University 1997-09 — 2002-05

B.Sc. *Aerospace Engineering*, GPA: 2.98

EXPERIENCE

Systems Engineering Specialist 2012-04 — Present

SSL

- 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 2008-06 — 2012-04

Space Science Laboratory

- 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 2003-12 — 2006-05

Janos Technology

- 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 2001-09 — 2003-06

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.

VOLUNTEERING

UUCB - Social Media Team Member

2018-07 — Present

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

UUCB - Safety Implimentation Team Member

2017-09 — Present

- The Safety Implimentation Team is responsible for educating all church groups on the Safety Plan requirements.
- Trained Family Ministry and Religious Education Volunteers on Emergency Evacuation procedures.