I thrive at designing, building and supporting fantastic systems, especially upon Unix type platforms. My R&D experience is largely focused around DevOps, web apps and data-collection systems. I seek to build high-impact systems and evolve my skills with clever people.

Below illustrates typical multi-role functions I've handled during the bulk of my professional experience, with LiDAR Services / Gas Recon.

- Linux Admin & Operations (SRE) — 35%
- Software Development (Java) — 25%
- DevOps (gitlab) — 15%
- Data-Collection Operations — 15%
- Business Development — 8%
- Hardware Development — 2%

JAMES T SNELL
PROFESSIONAL ENGINEER (P.ENG)

Calgary Alberta, T2E0M9, Canada
1-403-616-7685
contact@jamessnell.com

PERSONALITY

- Self-starter, adaptable and driven
- Comfortable architecting and leading development.
- Very willing to follow excellent leaders
- Entrepreneurial roots & mentality
- Inquisitive & life-long learner
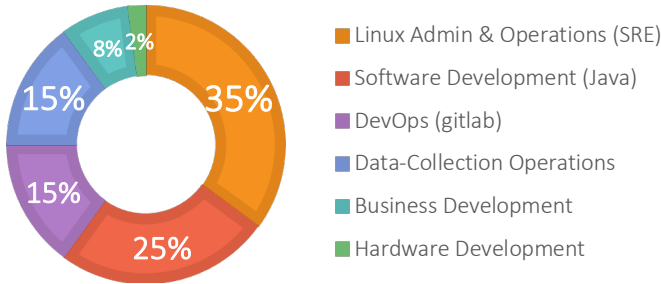
TOP TECH COMPETENCIES
Python, Java, BASH, Linux, JavaScript, HTML/CSS, Virtualization (AWS/VMware), svn, git, GitLab CI/CD, DevOps, Jenkins, Apache2, nginx, Agile method, DRY principle

OTHER TECH COMPETENCIES
Ansible, C/C++, Swift, Objective-C, PHP, jQuery, MySQL, Postgres, Geoserver, maven, ant, CAD (Fusion 360), VHDL, FPGAs, PCB layout

NOVATEL INC (HEXAGON AUTONOMY & POSITIONING)
SOFTWARE ENGINEER (DEVOPS)   NOV 2020 TO PRESENT

- Founded and co-owned pivot to GitLab, incl. prototyping of GitLab CI/CD strategy
- Software development in support of ASPICE adoption and DevOps Metrics
- Perpetual review, trial and roll-out of velocity-boosting DevOps services
- Led the Open Source group driving public code offered via GitHub

NOVATEL INC (HEXAGON AUTONOMY & POSITIONING)
APPLICATIONS ENGINEER   JUNE 2018 TO NOV 2020

Applications Engineering at NovAtel entails advanced GNSS problem solving & troubleshooting to support high-profile customers.

- Integration customer support of extreme-precision positioning systems
- Support focus on Linux users & OEM7 API (Lua) adopters
- Inter-team facilitator with desktop software team
- Founded and steered NovAtel's public GitHub presence

LIDAR SERVICES INTERNATIONAL (LSI) & GASRECON (GRI)
INTEGRATION ENGINEER   SEPT 2011 TO JUNE 2018
                                              (CONTRACTING JUNE 2018 TO PRESENT)

I've worked through all aspects of LSI/GRI's R&D and Operations groups. These are aerial and ground-based surveying companies. My responsibilities have included:

- Electrical/Hardware design and implementation of surveying systems
- Extensive software development (Java-based) on remote sensing platforms
- Design/Implementation/Support of customer-facing Cloud services
- Founded and maintained all DevOps practices and systems
- Owned all things DevOps through three generations of DevOps systems
- Owned Operations of virtualization infrastructure (internal + external facing)
- Software Development coordination of software team (size varied from 1 to 4)
- Aerial operations (installation, in-air ops and ground-support)
- Data processing support for ground-based methane/pipe-locate mapping
- SRED reporting support
- Too much to say – please ask questions for greater detail

JAMES T SNELL
PROFESSIONAL ENGINEER (P.ENG)

RECENT PROJECTS

APP STORE
https://dawning.ca/apps

I've released a few glorified *hello-world* apps to the App Store. I've especially enjoyed watchOS and macOS dev. I have a small product roadmap that I'll implement when my schedule permits.

PERSONAL LAB
I maintain a home environment of Linux and BSD servers. I prototype with them and frequently roll-out my findings beyond my lab. I'm a major lover & very seasoned user of all-things Unix.

3D PRINTING
https://dawning.ca/df

https://dawning.ca/cc155

I was an early adopter of 3D printers. I've built two custom machines that suit my needs.

3D CAD MODELING
https://dawning.ca/skulls

I've processed & printed complex models derived from actual raw MRI data. I often print 3D models I design via Fusion360 to help me better organize my home lab.

MORE
https://jamessnell.com

http://linkedin.com/in/jamestsnell

https://github.com/docdawning

https://dawning.ca/hackaday

COLUMBIA COLLEGE
SRE CONTRACTOR   APRIL 2009 TO PRESENT

I've been involved with Columbia since around 1998. My first job was servicing hardware and providing help desk support. In 2009, I founded their Security Services training eLearning platform using Moodle, implemented upon AWS-hosted LAMP services. PayPal-driven self-enrolled students have attended our online programs in Security Services, with 26,000 accounts as of May 2019.

With Columbia's on-prem ESX infrastructure, I coordinate all Linux-based services, dating back to when I first established them. This includes an in-house AD-integrated Moodle deployment (separate to the above mentioned) with over 2,000 active student & staff accounts.

I have created and deployed various generations of Columbia's public website (upon Wordpress, on self-hosted Linux servers). This includes establishment and coaching of SEO and Social Media advertising campaigns. We recently have outsourced this to an external firm, though I continue to coach the internal and external team members.

Most recently, I've provided key input and steering towards a major re-org of Columbia's internal IT operations.

FORMAL EDUCATION & CREDENTIALS

PROFESSIONAL ENGINEER DESIGNATION (P.ENG)
LICENSED BY ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF ALBERTA (APEGA), 2015

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
INTERNSHIP PROGRAM,
UNIVERSITY OF CALGARY, 2010

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
EMBEDDED SYSTEMS CONCENTRATION,
UNIVERSITY OF CALGARY, 2010

INTERESTS

I often pursue personal projects. These broaden my skills & exercise my creativity. My projects typically focus upon Software, Electrical or Mechanical Engineering disciplines. Many projects positively boost my professional work. I've listed some key projects to the left.

I love dogs, cats, espresso and guitars.