



JAMES T SNELL

PROFESSIONAL ENGINEER (P.ENG)

Calgary Alberta, T2E0M9, Canada
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contact@jamesnell.com

PERSONALITY

- Self-starter, adaptable and driven
- Comfortable architecting and leading development.
- Excited to follow insightful leaders
- Entrepreneurial roots & mentality
- Inquisitive, life-long learner

TOP TECH COMPETENCIES

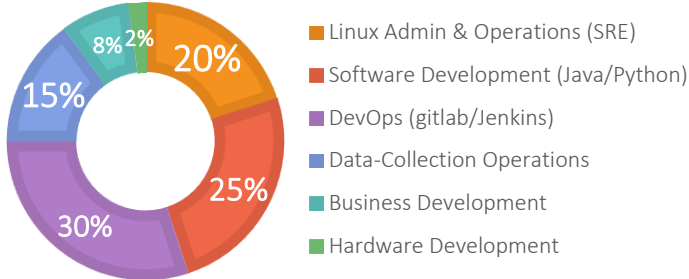
Python, Java, BASH, Linux, Ansible, Ansible Tower, Docker, AWS, VMware vCenter/vSphere, git, GitLab CI/CD, SVN, Perforce Helix, Jenkins, Apache2, nginx, JavaScript, HTML/CSS

TECH FAMILIARITIES

Electron/NodeJS, C/C++, Swift, Objective-C, PHP, MySQL, Postgres, Geoserver, maven, ant, CAD (Fusion 360), VHDL, FPGAs, PCB layout

Software development is a wonderful domain for creativity to synergize with science to improve lives. I enjoy bringing together talented people and technology to maximize impact and open new possibilities.

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



NOVATEL INC (HEXAGON AUTONOMY & POSITIONING)

TEAM LEAD, DEVOPS SOFTWARE ENGINEERING JUNE 2022 TO PRESENT

- Owner/Architect of DevOps initiatives in support of ~ 100 software developers.
- Manager of 3 reports and active recruitment of 2 additional team members.
- SCRUM coordination for 7 team members.

NOVATEL INC (HEXAGON AUTONOMY & POSITIONING)

DEVOPS SOFTWARE ENGINEER NOV 2020 TO JUNE 2022

- Behind-scenes leadership to found and scale the new 9 member DevOps team
- Founded and led company-wide pivot from Perforce Helix to Git (GitLab)
- Led the Open Source group driving public code offered via GitHub

NOVATEL INC (HEXAGON AUTONOMY & POSITIONING)

APPLICATIONS ENGINEER JUNE 2018 TO NOV 2020

- Integration support of world-class high-precision GNSS+INS positioning systems
- Large focus on Linux users & OEM7 API (Lua) adopters
- Founded and steered NovAtel's public GitHub presence

LIDAR SERVICES INTERNATIONAL (LSI) & GASRECON (GRI)

INTEGRATION ENGINEER SEPT 2011 TO JUNE 2018
(CONTRACT WORK UNTIL 2021)

- Software/Hardware Engineering & ops of aerial & ground surveying systems
- Development coordination for internal and external customer projects
- Owned DevOps systems through three implementation generations

COLUMBIA COLLEGE CALGARY

SRE CONTRACTOR APRIL 2009 TO PRESENT

- SRE contracting following prior employment stints since 1998.
- Owner of all Linux-based services hosting eLearning for up to 250 sessions/day
- Technology guidance, trail-blazing and special project support

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PERSONAL PROJECTS

APP STORE

<https://dawning.ca/apps>

[Windows Store](#)

I've released a few glorified *hello-world* apps to Apple's App Store and the Windows Store. These have been self-driven educational projects. I have plans to implement progressively larger projects later.

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 the Unix way of life.

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://jamesnell.com>

<http://linkedin.com/in/jamestsnell>

<https://github.com/docdawning>

<https://dawning.ca/hackaday>

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

CAREER GOALS

- Always be surrounded by smart passionate people
- Lead from progressively higher levels, scale impact
- Keep writing code & stay in-tune with the ground-level tech
- Build/join communities to maximize knowledge transfer
- Incubate and or found new businesses

PERSONAL METADATA

- I'm a Canadian citizen, born and raised in Western Canada
- I'm married with 2 young children (soon to be 3)
- I like to jog/run modest amounts
- I love espresso, guitars and dogs

A GEEKY CHALLENGE

I invite job offers to arrive in the form of pull requests to my resume repo at: <https://github.com/docdawning/resume>