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.



**James T Snell**

Professional Engineer (P.ENG)

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# **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

#### 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 UNTIIL 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

### Personal Projects

## App Store

<https://dawning.ca/apps>

[Windows\_Store](https://www.microsoft.com/en-ca/p/trash-talker/9pl9s4495ddv?activetab=pivot:overviewtab)  
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://jamessnell.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>