### Objective & overview

I thrive at designing, building and supporting systems upon Unix type platforms. My past projects have tended towards medium-scale web applications and data-collection hardware. I seek to collaboratively create high-impact systems with clever people.

The current time-distribution of my multiple roles is illustrated below.

### Recent Experience



**James T Snell**

Professional Engineer

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# **PERSONALITY**

* Self-starter, adaptive and driven
* Comfortable architecting and leading development.
* Very willing to follow excellent leaders
* Entrepreneurial mentality
* Inquisitive & life-long learner

## **top competencies**

Java, JavaScript, jQuery, HTML/CSS, BASH, Virtualization (AWS/VMware), svn, git, gitlab, DevOps, Apache2, nginx, Linux, Agile method, DRY principle

## **growing Competencies**

Ansible, Python, C/C++, Swift, Objective-C, PHP, MySQL, Postgres/PostGIS, Geoserver, maven, ant, gradle, continuous integration, CAD (Fusion 360), VHDL, FPGAs, PCB layout

#### Lidar Services International (LSI) & GasRecon (GRI)

##### September 2011 to present, 32hrs/wk

I juggle many roles with LSI/GRI. Below gives a timeline, illustrating the evolution of my involvement with both companies.

|  |  |
| --- | --- |
| 2018 | - Expanded role to include ~5% business development focus |
| 2017 | - Rolled-out Ansible, retired custom BASH orchestration  - Next-gen aerial photography precision-logging prototyping  - Created automated back-end-fault reporting to Slack |
| 2016 | - Developed data pipe automation, reduced overhead 60%  - Devised auto unit test exec and report bundling for LSI  - Supported aerial and ground LSI/GRI data collection |
| 2015 | - Coordinated GRI’s rapid prototyping, continued from 2014  - Owned cloud roll-out to EC2. Handled all 20 Linux servers  - Java montages (nights/weekends) to bootstrap GRI Cloud |
| 2014 | - HW & SW co-integration of new LSI LiDAR scanner  - Commenced rapid prototyping of new GRI sensor platform  - Organized all DevOps for LSI/GRI Software Team, 3 devs  - Owned feedback-loop with GRI field ops, steered R&D |
| 2013 | - LSI spawned GRI (pipe mapping and CH4 leak detection)  - Major GRI systems architectural & road-mapping input  - Flew field operations support for nearly all LSI projects |
| 2012 | - Joined LSI SW team (2 people). Began Java development  - Dev efforts focused at enhancing aerial surveying system  - Continued extensive LSI field operations role |
| 2011 | - Joined LSI in system’s support role (hardware focused)  - Installed, flew, repaired manned aerial surveying systems |

#### Columbia College

### 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’m planning a medical assistive app next.

## 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 Printers

<https://dawning.ca/df>

<https://dawning.ca/cc155>

I was an early adopter of 3D printers. I’ve built two, one a heavily altered kit, the other from scratch. My printers have various excellent customizations.

## MRI/CT 3D Modelling

<https://dawning.ca/skulls>

I’ve processed & printed complex models derived from actual raw MRI data of my nephew’s skull. I recently gained access to the Smithsonian’s CT scan database for future such projects.

## More

<https://jamessnell.com>

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

<https://github.com/docdawning>

<https://dawning.ca/hackaday>

##### April 2009 to present, Contracted-basis

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, with AWS-hosted LAMP services. Paypal-driven self-enrolled students have attended our online programs in Security Services ever since.

With Columbia’s on-prem ESX infrastructure, I coordinate all Linux-based services, ever since I first established them. This includes an in-house AD-integrated Moodle deployment (separate to the above mentioned) with over 2000 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 aimed to help me gain new skills & exercise my creativity. My projects typically focus upon software, Electrical or Mechanical Engineering. Many projects positively boost my professional work. I’ve listed some key projects to the left.  
   
I love dogs, cats, espresso and guitars.