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# KEVIN AUBERT

POLYVALENT SYSTEM ENGINEER

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Licensed and motorised

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## Profile

CS engineer by training, my eight years' experience offered me the opportunity to explore several jobs on different angles. I am multi-skilled, involved, I provide good analytical insight and big-picture thinking. I'm always looking to learn and sharpen my skills.

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## Skills

### System Engineering

Maintenance and monitoring of an operational system.  
Analysis; Conception of monitoring tools.

### Development

Web and software development, scripting, database.

### Management & logistics

Logistics, planning, management; Good writing and redacting skills.

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## Technical

<b>System</b> Unix RedHat6/7, Centos6/7, Suse, Windows, ESXi, Vcenter	<b>Web</b> HTML, CSS, Javascript, PHP, Ajax, JQuery, Canvas, XML, Node.js	<b>Software and version control</b> RPM, puppet, Ansible, Openstack, SVN, Docker, Nagios, Prometheus, Grafana, Jenkins, Git, Jira
<b>Network</b> LAN, WAN, RF, PXE, DHCP, DNS, FTP, SSH, VPN, Iptables, UFW, PFSense, Zeroshell	<b>Databases</b> mySQL, Postgres, MongoDB, SolR, Json, Cassandra, InfluxDB	<b>Misc.</b> GPFS, MooseFS, Opengrid, Storm, Notions of Java and C, Satellite antenna installation (RF)
<b>Hardware</b> Installation, diagnostic and reparation, Bladecenters, Firewall and Routers, NAS and storage bays	<b>Scripting</b> Bash, and a slice of Python	<b>Language</b> <b>French:</b> Mother tongue, <b>English:</b> Fluent

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## Experience

### Payload Data Acquisition and Processing - Thales Services Numériques (Labège)

May 2022 - Today (4 months)

#### System and network administrator, Integration Engineer

PDAP is a ground system meant to gather, process and disseminate data from the second generation of Eumetsat' satellital fleet Metop-SG. The system is currently in the integration and validation phase and the first satellite is expected to enter Earth' orbit by the end of 2024.

I joined the team as a system and network administrator, but also to help with the software integration and validation.

We are preparing 3 distinct environments for production and pre-production before delivering them to Darmstadt (Germany) where the operation phase will unfold.

The goal is to build the hardware and network infrastructure (Dell servers, Synology NAS, Cisco equipment, etc.), then to integrate and validate the associated system suite (Redhat 7, Centos 7, Suse, Opensuse) and its software counterpart. The process is fully automated using tools such as Jenkins, Ansible, Git and Docker.

- Design and implement the hardware and network infrastructure (Dell, Synology, Cisco)
  - Software integration (Ansible, Jenkins)
  - Software validation
  - Fix and re-package the software suite (Bash, Python, Maven, RPM, Jenkins, Git)
  - Design and implement the infrastructure holding the project's internal tools (PFSense, Nextcloud, OpenVPN, DNS, DHCP, SMTP, Ldap, etc.)
  - Installation in Darmstadt, operation team training and maintenance
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**Sentinel 2 Payload Data Ground System** July 2020 - May 2022 (23 months)  
- Thales Services Numériques (Labège)

**System and Network Administrator**

System and network administrator on Sentinel-2, I am responsible for the good functioning of the large S2PDGS, including the operational platform as well as several integration and validation platforms, and the workstations used by the different teams working in Toulouse premises.

This encompasses bladecenters, storage bays, routers and switches and several hundreds of servers and workstations, both physical and virtual.

My main goal is to make sure that everything is operational and running every day of the year. I also prepare the infrastructure for every planned software evolutions, and keep it all up to date to fit the security standards. As sole responsible for the good functioning of the whole infrastructure, coordination, prioritization and reporting are also a very important part of the job.

Sentinel2 is driven by a cut-throat SLA and by ESA's constant desire for evolution.

I took the role at the beginning of the platform's move to cloud. This gave me the opportunity to work both on the legacy hardware platform and the newly created cloud platform. I was able to participate in the decommissioning of the old hardware centers and saw their intricacies, as well as in the creation and integration of the new cloud platform, working with the French public cloud provider OBS.

- Deep analysis and issue resolution (**system, network, hardware**)
- Configuration and maintenance of system and basic services (**VPN, DNS, iptables, nginx, tomcat, Cassandra, Apache, VMWare**, etc.)
- Automation (**Puppet, Ansible, Jenkins**, etc.)
- Monitoring and tools (Prometheus, Grafana, Syslog)
- Hardware (IBM bladecenter, Storage Bay (**SAN**), **GPFS**, networking, installation and maintenance, Zeroshell, etc.)
- Cloud infrastructure (OBS public cloud, **Openstack, Flexible Engine**, etc.)
- Coordination between the several involved teams

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**Sentinel 2 Payload Data Ground System** Aug. 2018 - July 2020 (23 months)  
- Telespazio France (Toulouse)

**Satellite Operations Expert**

Part of a team of 5 experts, I strive to maintain and further my global understanding of the large Sentinel2 ground system, ready to analyse and fix any emerging issues, to ensure its operational stability, under pressure of a drastic SLA.

- Anomaly analysis and resolution (component, system, network, hardware)
- Configuration and maintenance (**Puppet, Bash, PSQL**)
- Development and maintenance of monitoring tools (**Nagios, SolR**)
- Advise on technical solutions for software improvement
- Weekend shifts
- Reporting

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**Sentinel 2 Payload Data Ground System** Dec. 2016 - Aug. 2018 (20 months)  
- Telespazio France (Toulouse)

**Satellite Operator**

As an operator, my job is to detect and escalate any anomaly that could impair Sentinel2's ground system's good functioning. In an ever evolving environment, constant adaptation of the operating tools is key.

- Monitoring, pre-analysis and reporting
- Development and deployment of new monitoring tools (**Nagios, Bash, PSQL, Javascript**)
- Procedure execution for maintenance, configuration and anomaly recovery

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**Monitoring for Environment and Security** Oct. 2015 - Dec. 2016 (14 months)  
in Africa - Telespazio France (Toulouse)

**Integration manager**

As integration manager, my goal is to prepare almost 200 meteorological and environmental stations, and ensure they are dispatched to more than 50 Sub-saharian African countries. Often working independently, my functions evolved as the project unfolded.

- Creation and documentation of integration and expedition processes
- Preparation of the integration and inventory rooms (**LAN, antenne et reseau RF, PXE**)
- Inventory and transportation management (ins and outs)
- Supervision of the integration phase
- Development and technical support (**Bash, Python, RPM**)
- Training et user support
- On-site station deployment

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**Toulouse Computing** April 2014 - Oct. 2015 (17 months)  
- Sole trader (Toulouse)

**IT repair and counsel**

Self-employed, I offer my services to diagnose and repair any computer related issue at home and give general computing courses. I also conducted a few web-related projects, such as the development of a **PHP** API for two-factor authentication. (**HTML, CSS, Wordpress, Bootstrap**)

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**CUBRIK** April 2013 - April 2014 (12 months)  
- Centre Virtuel de la Connaissance sur l'Europe (Sanem, Luxembourg)

## Developer

Only developer in a team of history and humanity researchers, I have to design and code several web-based tools in the aim of demonstrating the applications of the CubRIK framework for multimedia search, FP7 project developed by a 15-entities european consortium.

- Design of a NoSQL 'ground truth' database fed to a facial recognition algorithm (**Javascript, Ajax, JQuery, Node.js, PHP, JSON**)
  - Creation of web-based participating tools for data modelling (**Ergonomics, Gamification**)
  - User needs analysis, documentation and training
  - English speaking environment
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## Others

### Industrial project management - CVCE (Nancy)

2013 (6 months)

Design of a web-based tool for easy creation of historical maps (**HTML, Canvas, JS Leaflet, MongoDB**)

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### Developer and webmaster - Asia Trading Group (Marseille)

2012 (2 months)

Development et management of a "traveler's blog" with commercial intent. SEO and social network's accounts handling. (**HTML, CSS, PHP, Wordpress**)

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### More...

I am patient, perseverant, punctual, able to take quick decisions under pressure. I can adapt to any team and work alone.

Outside of work I love multi-player video games, which I used to play at high level. Nowadays I invest most of my free time into music (composition, production, performance)

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## Education

### Telecom Nancy - Engineering School - Nancy

Master 1 equivalency (2013)

### Preparatory classes for French "Grandes Ecole" PSI - Marseille

(2009)

### Lycée Joliot-Curie - Aubagne

Scientific A-level, Engineering / Math. (2007)

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