

William Le Ferrand  
5, place du Président Wilson  
31000 Toulouse  
FRANCE

+33 6 33 92 44 18  
+1 (415) 683-1484

[william.le-ferrand@polytechnique.edu](mailto:william.le-ferrand@polytechnique.edu)

[williamleferrand.github.io](https://williamleferrand.github.io)  
[angel.co/wleferrand](https://angel.co/wleferrand)

Born 1987  
French Citizen, Canadian Visa  
Married, 3 children

## Academics

---

2006 - 2010    **Ecole Polytechnique**    *MS in Computer Science*

## Entrepreneurial activity

---

2008 - 2009    **beouifi.org**    *wifi captive portals funded by advertisement ; won an entrepreneurial contest. 100 users (cafés, hostels)*

2009            **corefarm.org**    *built a 3d rendering farm for Blender 3D using the Yafaray engine, dispatching the work on a grid of personal computers. over 1000 users trading their CPU time*

2010            **corefarm.com**    *3d rendering farm for Blender 3D in AWS. 100 users, commercial failure, opensourced*

2011 - 2013    **besport.com**    *cofounded a sport social network, hired a team of 9 engineers, raised 1.2m\$*

2013 - 2014    **rambugo.com**    *built an experimental marketplace for on-demand regional flights in Northern California using light aircraft*

2015            **social playbooks**    *built a non-profit social app connecting families and providers of children activities in San Francisco*

2017 -          **accret.io**    *the factory-as-a-service*

## Contracting activity

---

2010 - 2011    **hypios.com**    *led a team of 3 engineers, built a scientific problems' marketplace connecting research centers and industrial users*

2011            **issuu.com**    *designed and implemented an ad network in OCaml including real-time ad presentation and offline processing of 150M documents, handed over the code to the team in Copenhagen*

2013            **stretchinc.com**    *designed and implemented a full stack prototype of a cloud based/html5 DVR, including embedded C code in HD cameras, AWS S3 storage and real time video re-encoding using ffmpeg*

2013            **referrallama.com**    *designed and implemented a full stack prototype of a referral platform on top of LinkedIn*

2013 - 2016    **sumologic.com**    *worked with the Search Performance team to design and implement a real time log ingest and search component that handles 5Tb+/day. designed and implemented a metrics collection and storage platform handling 2M dps from Kafka to Cassandra, deployed in AWS*

## Contracting activity continued

---

- 2015        **lumity.com** *built a full stack healthcare sales platform on top of Lumity's proprietary optimization engine*
- 2016        **alloy.ai** *built a prototype of metrics collection and search platform handling 1.5B events from Kafka to ElasticSearch, deployed in Kubernetes/GCE*
- 2016 -      **logichub.com** *detection, classification and prevention of security breaches at scale*

## Aeronautical Experience

---

- FAA CMEL, Instrument Rating
- 550 hours TT, 250 ME, one Atlantic crossing
- Clean record

## Talks

---

- 2010        **OCaml meeting 2010** « *the collaborative rendering farm : a JoCaml grid* », <http://bit.ly/1N5kRXU>

## Skills

---

- Programming in Ocaml (including Camlp4), Scala (including Akka), Js, SASS
- Programming in C/C++ (including Boost, OpenCV, MPI)
- Developing and scaling with AWS technologies and Google Compute Engine, including Kubernetes
- Working with large codebases spanning several teams
- Defining elegant and scalable architectures
- Defining and implementing prototypes and MVP's
- DIY hardware development, rep rap printers, raspberry Pi, basic electronics, OpenSCAD
- Part 135 legal landscape

## Open source

---

- Wing leveler for GA aircraft, <https://github.com/accretio/wingleveler>
- Gripper for robotic arm, <https://github.com/accretio/thortools/tree/master/thorgripper>
- AWS OCaml client library, <https://github.com/williamleferrand/aws>