

Dominique Martinet IT Engineer

CONTACT	<i>E-mail:</i> dominique.martinet@codewreck.org
EXPERIENCE	<p>2021-now: Engineer at Atmark-Techno (Japanese embedded device maker): Lead developer of new product software (linux kernel & uboot, build system, installer, OTA updates)</p> <p>2020-now: Freelance (auto-entrepreneur): mostly lustre development and debugging</p> <p>2012-2020: IT “Research Engineer” at CEA: Admin of large compute clusters (Curie, TERA) with a focus on storage both hardware (Seagate, DDN, Netapp) and software (Lustre/HSM, NFS, 9P) Improvement of continuous integration including on-demand VMs for code review validation (gerit/jenkins/kvm)</p> <p>2010-: Development of a virtualization cluster management system, kvm-wrapper</p> <p>Summer 2010: System administration at ECP: setting up a kvm-wrapper cluster and migrating VMs from existing UML hosts</p> <p>2009-2010: Lead of a 19 members team for the French Robotic Cup (Centrale Robot Club) Electronic design and low level C (ARM at91sam7x)</p> <p>2008-2010: Admin at VIA Centrale Réseaux, management of a network (campus with 25 routers, 1200 students), of servers (dozen)</p> <p>2008-2010: Supervision of events targeting a hundred to thousands of visitors (cultural events, recruitment forum, gala)</p>
IT SKILLS	<p>Programming: C and bash; python; Good understanding of rust, OCaml, kotlin, go, perl, php/js and very probably others debugging x86_64 assembly for linux kernel (crash utility, qemu/gdb) and userspace applications</p> <p>UNIX system administration, from systemd to sysvinit, including GNU tools and most common services (bind9, openldap, kerberos, postfix, dovecot...) kvm virtualization and containers, HA technologies (multipath, iSCSI/fc, drbd/glusterfs, corosync) Large (thousands of nodes) clusters management with e.g. puppet/clustershell and its monitoring (nagios forks, grafana, ELK) and large storage (Lustre/HSM with tape backend, robinhood)</p> <p>Security: continuous monitoring of security announces Testing with fuzzing (AFL, trinity, defensics), static analysis (coverity)</p> <p>Linux kernel reviews and development (mainly 9P: VFS and networking, RDMA)</p> <p>Networking: IB, IPv6, vlan, routing (static/OSPF), iptables, bonding, wireless...</p> <p>Experience with various embedded systems (ARM, 8051), FPGA, and cross-platform linux (wireless mipsel routers, ARM64 servers and boards)</p>
EDUCATION	<p>2010-2011: Research Student at the University of Tokyo</p> <p>2008-2012: Engineering student at École Centrale Paris</p> <p>2006-2008: “Classe préparatoire” MP in Janson de Sailly</p> <p>2006: Baccalauréat of Sciences</p>
LANGUAGES	Fluent English, French, Japanese School-level German
LEISURE	Electronics, magic, baking (cakes!)