

# J. RICK RAMSTETTER

## System & Embedded Software Consultant

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⚠️ I work remotely with at most 10% travel time per engagement



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## EXPERIENCE

### Staff Software Consulting Engineer

#### SAFRAN PASSENGER INNOVATIONS (Logistics)

📅 May 2020 - Present 📍

- Netted a major decrease in latencies associated with an existing communications abstraction by introducing ZeroMQ.
- Frequently consulted by teammates for knowledge of systemd, BusyBox, and the Single Unix Specification.

### Staff Software Consulting Engineer

#### SAFRAN PASSENGER INNOVATIONS (In-Flight Entertainment)

📅 2015 - May 2020 📍 Brea, CA (remote)

- Modernized the OS on thousands of passenger aircraft seatback media players by upstreaming board support to Linux, avoiding proprietary BSPs, and using modern protocols, libraries, and languages.
  - e.g fbdev to Wayland, SDL 1 to 2, GStreamer 0.10.36 to 1.16.2, GCC 4.9 to 7.0, C++98 to C++14
- Created a multicast media content distribution system in use on hundreds of aircraft, capable of ranking and distributing-by-rank to a variety of ARM devices while in-flight.

### Senior Software Engineer

#### SAFRAN PASSENGER INNOVATIONS (In-Flight Entertainment)

📅 2012 - 2014 📍 Brea, CA

- Created a solution for a faulty SD card reset line impacting thousands of fielded devices, preventing thousands of RMAs. The kernel module for Linux 2.6 tied the software initiated reset signal to a power management IC action.
- Developed the GStreamer-based media stack, including porting to new hardware platforms and bugfixes.

### Flight Software Engineer

#### SpaceX (Space Launch)

📅 2010 - 2012 📍 Hawthorne, CA

- Supported initial bringup of new fault tolerant PowerPC devices using U-boot and Linux.
- Managed configuration and software compatibility for the Dragon spacecraft's "GNC bay door" on Commercial Orbital Transportation Services demo missions.

## MOST PROUD OF

🏔️ **Backpacking the Appalachian Trail**  
I backpacked the Appalachian National Scenic Trail in 2014.

🏠 **Being involved in childrens' education**  
I volunteer for and sit on the PTA Board of my childrens' school.

💻 **Working remotely**  
I have worked remotely since 2015.

## STRENGTHS

- flexible efficient mentor
- DAMP code time management
- agility over Agile Zoom Slack
- MS Teams LeSS SAFe
- C++14 C99 Embedded Systems
- Linux userspace Python3 POSIX shell

## EDUCATION

M.Sc. in Computer Science  
Rutgers, the State University of New Jersey  
📅 2008 - 2010

B.Sc. in Computer Engineering  
University of California, Irvine  
📅 2004 - 2008

## PUBLICATIONS

- 📄 **Journal Articles**
- [1] • J. Rick Ramstetter, Yaling Yang, and Danfeng Yao. "Applications and Security of Next-Generation, User-Centric Wireless Systems". In: *future internet* 2 (2010).