

# THE HANSEN REPORT ON AUTOMOTIVE ELECTRONICS

## Editorial Notes

Dear Reader,

Linux is widely used in infotainment systems but not yet in systems that are safety critical. I recently checked in with Francis Chow, vice president and general manager for in-vehicle operating systems and edge computing at Red Hat, to get an update on their plan to safety certify its Linux in-vehicle operating system under ISO 26262. His news was very good. Red Hat is devoting 175 engineers to its automotive Linux project, who are backed by an additional 1300 Linux engineers. "The project is coming together nicely," he said. "Red Hat's Linux OS will be ready in time to support SOPs as early as 2026."

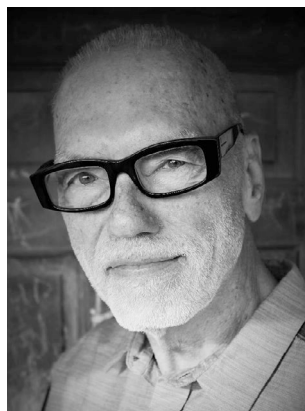
I asked Chow why General Motors, Mercedes and other carmakers are so keen to have a safety-certified Linux operating system. "Carmakers need a platform that is scalable and updatable. Linux platforms from Red Hat have been proven in IT, data centers and many safety-critical applications. Linux is a good fit for automotive. A lot of open-source Linux packages that are suitable for ADAS already exist. Carmakers could easily adapt, refine and differentiate those packages without having to worry about the lower-level software," he stated.

Red Hat's safety-certified Linux in-vehicle operating system must compete with entrenched and proprietary platforms such as QNX OS for safety. But the vast talent pool of Linux engineers is another reason why carmakers want Linux operating system platforms. At Chow's suggestion I searched on LinkedIn for "QNX AI" and compared that to a LinkedIn search on "Linux AI." QNX AI landed 1000 hits; Linux AI landed 399,000 hits. When it comes to software talent Linux has no competition.

Regards,



**Paul Hansen**  
Editor



### THE HANSEN REPORT

- 25 Editorial Notes
- 26 On a Roll in Automotive
- 27 BYD is Going Global – It's Freaking People Out
- 30 springerprofessional.com
- 31 Impulses
- 32 Companies + Products

### IN THE SPOTLIGHT

- 36 China's Automotive Industry – Pragmatism as a Strategy

### IMPRESSUM

#### THE HANSEN REPORT

on Automotive Electronics  
5|2024, 37. Jahrgang  
ISSN (Online) 2192-91143  
Springer Vieweg | Springer  
Fachmedien Wiesbaden GmbH  
Postfach 15 46 · 65173 Wiesbaden  
Abraham-Lincoln-Straße 46 ·  
65189 Wiesbaden  
[www.springerprofessional.de/atzelektronik](http://www.springerprofessional.de/atzelektronik)  
Amtsgericht Wiesbaden, HRB 9754  
USt-IdNr. DE81148419

**Geschäftsführer:** Stefanie Burgmaier,  
Andreas Funk, Joachim Krieger  
**Gesamtleitung Produktion:** Ulrike Drechsler  
**Leiter Media Sales:** Volker Heselendz  
**Chefredakteur:** Dr. Alexander Heintzel  
**Redaktion:** Paul Hansen, Robert Unseld  
**Leiter Vertrieb + Marketing:** Jens Fischer  
**Produktion | Layout:**  
Kerstin Brüderlin, Heiko Köllner  
**Sonderdrucke:** Martin Leopold,  
Medien-Kontor Leopold, Kreuzstr. 1,  
53489 Sinzig · tel +49 2642/90 75 96  
[leopold@medien-kontor.de](mailto:leopold@medien-kontor.de)

**Verkaufsleiter Automotive:**  
Rouven Bastian,  
tel +49 611 7878-399 ·  
fax +49 611 7878-78399  
[rouven.bastian@springernature.com](mailto:rouven.bastian@springernature.com)

**Anzeigendisposition:**  
Carmen Calvo-Zeller,  
tel +49 611 7878-616 ·  
fax +49 611 7878-78616  
[carmen.calvo-zeller@springernature.com](mailto:carmen.calvo-zeller@springernature.com)