
DANIEL GROBE SACHS

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469 N. Howard Ave
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Profile

Skilled systems integration engineer with deep hardware architecture and embedded software experience and a record of innovation. Emphasis on cross-functional interfaces, connectivity, and energy and energy management including batteries, charging, and system management controllers.

Portfolio

My portfolio as system architect and engineering lead includes several award-winning Motorola Solutions products. Recently, I lead architecture and system design for the XV and XVE500 RSMs, and for a new accessory interface, used in MotoTRBO Ion. Products implementing my issued patents include the MotoTRBO Ion radio, APX Next and APX Next XE radios, and XV and XVE500 RSMs.

Experience

Principal Staff Engineer, Motorola Solutions — 2015-Present

As the interface architect for the Motorola Solutions Accessories and Energy organization, I design accessory hardware and software interfaces that are used for communications between our radio portfolio and our accessories, and lead offshore engineers implementing these products and interfaces. I also participate in complex software development tasks such as platform bring-up and debugging, and regularly consult for teams across the company in areas including system management controllers, accessory interface logic, and power trees.

Staff Software Engineer, Motorola Solutions — 2010-2015

In addition to serving as a front-end architect responsible for high-level design documentation and staffing estimation, my portfolio in this role includes a major ODM project with an offshore partner, for which I provided a technical specifications, supervised the partner's work, lead integration of the ODM hardware with the internally-built software, and oversaw hardware testing and certification.

Member of Technical Staff, Software Technologies Group — 2006-2010

At STG I developed intelligent low-power wireless sensors, sensor networks, and associated applications. My responsibilities included requirements gathering, system design, hardware architecture development, software development, and integration of outside hardware with in-house software.

Education

- BS Computer Science, University of Illinois at Urbana-Champaign, 1998
 - MS Electrical Engineering, University of Illinois at Urbana-Champaign, 2000
 - PhD Electrical Engineering, University of Illinois at Urbana-Champaign, 2006;
Publications at <http://www.nekito.net/~dgsachs/publications.html>
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