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Craig Petku
Principal Engineer at indie Semiconductor

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Experience

Principal Engineer
indie Semiconductor · Full-time
Apr 2021 - Present · 3 yrs 9 mos
Metro Detroit

Manager: Systems Engineering at Aptive
Aptiv · Full-time
Dec 2017 - Apr 2021 · 3 yrs 5 mos
Auburn Hills, MI

Aptiv (NYSE:APTV) emerged on December 5, 2017 from the completion of Delphi's spin-off of its powertrain segment, which is now trading as Delphi Technologies (NYSE:DLPH).

Delphi Data Connectivity US LLC
2 yrs 11 mos
Auburn Hills

Manager: Systems Engineering
Jan 2016 - Dec 2017 · 2 yrs

Established a formal Systems Engineering organization to as part of a reorganization of the previous PTL organization.
Adopted commercial requirements management tools for USB connectivity module product line.
Established expertise within the new S.E. organization for certifying Apple Carplay based systems
Develop white papers on ASIC capabilities and performance characteristics to support engaging new customers
Traveled internationally to demonstrate technologies and support quoting/winning new business.
Analyzed USB-IF compliance issues and coordinate corrective actions for engineering and suppliers
Analyzed field returns to establish root cause and develop product troubleshooting capabilities of quality and systems engineers.

Manager: Advanced Product Development
Feb 2015 - Jan 2016 · 1 yr

Established relationships between the newly formed Delphi Data Connectivity US LLC organization and Delphi Electronic Technical Center Shanghai ADP group for developing new technologies.
Selected new technologies to be pursued for connectivity modules.(e.g., "Type C", NFC, USB Power Delivery).
Developed and integrated software drivers and application features for new connectivity module technologies into Linux based demonstration platforms.
Developed and demonstrated advanced software features including firmware based "Type C" support using existing ASIC features not originally specified for this purpose.

Chief Engineer
Unwired Technology
Mar 2011 - Feb 2015 · 4 yrs
Auburn Hills

Established a Software Engineering Group for developing new products
Established relationships with contract manufacturers
Developed Android and DVD based Rear Seat Entertainment platforms
Developed IR Headphones based upon custom ASIC's with ARM M0 Cores

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Developed And Patented Custom USB Dual Role HUB ASIC to support Apple CarPlay
Managed both the Software and Electrical Engineering Groups

Delphi
5 yrs 7 mos

Platform Architect - Graphics Processors
Jan 2010 - Mar 2011 · 1 yr 3 mos

Provide leadership to project teams in the development of Freescale i.MX 5x / 6X based instrument clusters

• Develop and execute an implementation strategy for delivering Delphi's first Form Factor Linux based IPC in under five months (PowerPoint Concept to Demonstrable Linux IPC).

• Provide technical leadership to systems engineers in the areas of MOST-50 development and programming / debugging Linux based products

• Provide technical leadership to Software engineers implementing and debuging Linux BSP's and drivers

• Develop electrical design engineers to transition from designing around NEC V850 Microcontrollers to Advanced ARM Archetectures

Electrical Design Manager
Jan 2008 - Jun 2010 · 2 yrs 6 mos

Provide leadership to project focused teams in the development of WorldSpace products

• Provide program management leadership working with outside suippliers to coordinate design change activities

• Provide technical leadership to systems engineers to develop test plans and manufacturing strategies

• Provide technical leadership to Software engineers to develop test strategies

• Provide technical leadership to Software engineers to identify driver related design oversights and provide corrective actions

• Develop Junior electrical design engineers to become lead engineers on programs

Sr. Electrical Engineer
Sep 2005 - Dec 2007 · 2 yrs 4 mos

Delphi Corporation Troy, MI

Senior Design Engineer
• Design and release for production the SkyFi3 XM portable satellite radio / audio player
• Design and debug ARM9 architectures for XM, Sirius, Worlspace and Portable HD Products
o Processors: Telechips TCC770, AMS 3524, NXP PNX0103, Atmel AVR series
• Develop drivers/API's to integrate products (above) with vendor SDK's for initial proveout
• Expand design capabilities in the CE engineering department by mentoring colleages
• Work with ODM's CM's and vendors to bring projects to fruition

Electrical Design Engineer
Visteon
Jan 2000 - Aug 2005 · 5 yrs 8 mos

Visteon Corporation Van Buren Township, MI

Platform EE Architect, Bluetooth/Voice recognition products
• Develop platform for OMAP/TMS470 based VR products
• Create synthesizable designs

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• Create initial prototypes to support applications teams
• Support RFI and RFQ processes
• Prepare Hardware Software Interface Specification(s)
• Create WCA(s) and present at design reviews overseas

Product Design Engineer, Project manager for the TACNET VACM
• Interface with aftermarket CBG to define and document requirements
• Establish work schedules
• Develop validation test strategy (VB)
• Lead development team and release design to manufacturing facility
• Mentored co-worker on VB and C programming languages to obtain his undergraduate degree

Product Development Engineer
Ford
Jan 1997 - Jan 2000 · 3 yrs 1 mo

Ford Motor Company Dearborn, MI

Product Development Engineer
• Develop test methodologies for Electronics Environmental Test Organization
• Create test stands to simulate vehicle interfaces using LabView
• Implement Visual Basic applications for collecting and monitoring lab metrics

Network Engineer
Unisys
Jun 1979 - Jan 1997 · 17 yrs 8 mos

Burroughs / Unisys Corporation Blue Bell, PA

Field Service / Network Engineer
• Novel Certified Network Engineer
• Install and service networking, mainframe and document processing systems
• Develop, present and close maintenance agreements to retain customers

Promoted •••

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