

# Mareike Davis

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## SUMMARY

Engineer (BSE, BA, MSc) with professional experience in applications, product development and launch, process improvement, project management, and CAD in semiconductor and aviation industries.

## EDUCATION

• <b>M.Sc., Project Management (specialization in Industrial Engineering)</b>	<b>Aug 2016 – Jun 2018</b>
Norwegian University of Science and Technology, Trondheim, Norway (Thesis grade: A / highest possible)	
Thesis title: <i>Investigating Knowledge Transfer During the Departure of a Project Member in the Semiconductor Industry</i>	
• <b>B.S.E, Computer Systems Engineering; B.A., German;</b> Barrett, The Honors College	<b>Aug 2009 – Dec 2013</b>
Arizona State University, Tempe, Arizona (GPA: 3.79/4.00)	

## PROFESSIONAL EXPERIENCE

<b>Aviation Communication &amp; Surveillance Systems (L3 Technologies), Phoenix, Arizona: Systems Engineer</b>	<b>Jan 2019 – Present</b>
• Set up <u>SharePoint architecture</u> to accommodate record keeping, file auditing, and metrics tracking	
• Assisted with <u>component installations</u> on the company-owned experimental aircraft	
• Modified <u>wiring diagrams</u> using AutoCAD and created templates for new diagrams	
• Proofread <u>technical documentation</u> to be submitted to FAA-regulated organizations	
<b>Freescale/NXP Semiconductor, Tempe, Arizona: Application Engineer</b>	<b>Feb 2014 – Aug 2016</b>
• Provided <u>customer support</u> for motor drivers, switches, and powertrain ICs	
• Designed and tested <u>12 evaluation boards</u> for various ICs with Cadence schematic design and Allegro PCB layout tools	
• Wrote <u>user guides</u> and testing procedures for evaluation boards	
• Negotiated with component and PCB suppliers to <u>lower costs</u> and ensure <u>on-time delivery</u>	
• Worked extensively across business units to develop new procedures and standards both for technical documentation and technical specifications of evaluation boards to <u>improve industry compatibility</u>	
• <u>Drove NPI efforts</u> on a three-phase motor driver (MC33GD3000), including testing new specifications in a lab environment and creating marketing collateral; received “On-The-Spot” award for exceeding business unit goals related to this project	
• <u>Coordinated with a multi-site, multi-country team</u> to retrofit a drone with Freescale motor drivers and microcontrollers for a trade show; received “Top Achiever 2015” for leading this project	
• Created and taught a 3-hour three-phase motor hands-on class at FTF 2016 for 20 participants	
• Represented Freescale/NXP Drivers group at Embedded World 2015 (Germany) and FTF 2016 (USA)	

<b>Freescale Semiconductor, Tempe, Arizona: Embedded Systems Intern</b>	<b>May 2013 – Dec 2013</b>
• Controlled motorcycle components (spark plug, fuel injector, etc.) via SPI protocol written in C using CodeWarrior	

<b>Voith IT Solutions, Heidenheim an der Brenz, Germany: SAP Intern</b>	<b>May 2012 – Jul 2012</b>
• Implemented an SAP data loading system using ABAP that improved efficiency by more than 95%	

## SKILLS

**Design:** Cadence Capture CIS, Allegro PCB Editor, AutoCAD, KiCad

**Programming:** C, mbed, C++, MIPS Assembly, Java, ABAP

**Tools:** MS Word, MS PowerPoint, MS Excel (including finance), MS Project, SharePoint, FrameMaker, SAP, JMP

**Equipment:** Oscilloscopes, logic analyzers, multimeters, thermal test chambers

**Certifications:** Six Sigma Yellow Belt with intent to continue, interest in PMP certification, pilot ground school (in progress)

**Additional languages:** German (fluent, USA/Germany dual national)

## ACTIVITIES

<b>Norwegian University of Science and Technology, Trondheim, Norway: Financial Officer</b>	<b>Oct 2016 – Oct 2017</b>
• Secured funding and handled the budget for the 60-member Project Management Student Organization	