
PERSONAL INFORMATION

Name: Saleh Abdallah Saleh Odat

Date of Birth: February 28th, 1983

Place of Birth: New York, USA

Citizenships: American & Jordanian

Marital Status: Married

Phone #: +962791984003

Google scholar page:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=g394AioAAAAJ

Linkedin:

<https://www.linkedin.com/in/alhaj-saleh-phd-abdallah-583a4440/?originalSubdomain=jo>

Current Position: Senior software validation lead

Successful senior engineer with proven technical leadership experiences in driving software development for complex projects from concept to production. Over 10 years of technical experience ranging from validation, requirements, integration, design, and development for the automotive industry. Looking to expand my knowledge and expertise in the academic and teaching world where I can bring my strong technical & practical skills into the class room for added benefits for students.



Email: AAABDALL1983@GMAIL.COM

EDUCATION

PhD in Electrical and Computer Engineering (Graduated May/2016)

Oakland University, Michigan, USA.

GPA 3.81/4.0

Dissertation Title: NON-COHERENT FSK AND GFSK RECEIVERS USING PARTICLE-KALMAN FILTERING OPTIMIZATION THEORY AND SEQUENTIAL IMPORTANCE RESAMPLING TECHNIQUE

Master of Electrical and Computer Engineering (Graduated December/2009)

Oakland University, Michigan, USA.

GPA 3.77/4.0

Bachelor of Electrical and Computer Engineering (Graduated December/2007)

Oakland University, Michigan, USA.

GPA 3.53/4.0

EDUCATIONAL EXPERIENCE

Oakland University, Michigan, USA (January/2010 - May/2011)

Research Assistance

- ❖ Literature research of orthogonal frequency-division multiplexing (OFDM) at Oakland University.
 - ❖ Designing simulation experimentation using MATLAB/SIMULINK in the lab.
 - ❖ Solving research obstacles by extensive theoretical and experimental analysis techniques.
 - ❖ Preparing presentations and providing lectures to explain results.
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EDUCATIONAL CONFERENCES AND SEMINARS

- ❖ Harman International System seminar on GFSK Demodulation Using Sequential Monte Carlo Technique (September 2016, Novi, MI).
 - ❖ Harman International System seminar on novel framework to model discovers, compose and optimize web services in cloud environment (Aug 2016, Novi, MI).
 - ❖ Harman International System seminar on optimization of infotainment system testing (March 2016, Novi, MI).
 - ❖ IEEE Wireless Telecommunications Symposium (WTS) (09 Apr – 11 Apr 2014, Washington, DC).
 - ❖ IEEE Wireless Communications, Vehicular Technology, Information Theory and Aerospace Electronic Systems (VITAE) (24 Jun – 27 Jun 2013, Atlantic City).
 - ❖ IEEE International conference in Electro/Information Technology (09 May - 11 May 2013, South Dakota).
 - ❖ IEEE Wireless Telecommunications Symposium (17 April - 19 April 2013, Phoenix, AZ).
 - ❖ Continental Automotive System seminar on Common Verification Tool (September 2011, Auburn Hills, MI).
 - ❖ American Axle & Manufacturing seminar on Software design using MATLAB/SIMULINK (August 2008, Rochester, MI).
 - ❖ American Axle & Manufacturing seminar on Automotive Open System Architecture (Autosar) (July 2008, Rochester, MI).
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TECHNICAL EXPERIENCE

Eagle Technology Competence, LLC, Rochester, MI (September/2017 – Present)

Senior Software Validation Lead

- ❖ Responsible for several OEMs projects (GM, Toyota, Denso10 ...etc.).
- ❖ Setting up infotainment benches for testing.
- ❖ Validating vehicles infotainment systems for Bluetooth and Wi-Fi functionalities against different mobile carriers and mobile phones.

- ❖ Providing sniffer and traceability logs for OEMs for discovered issues.
- ❖ Reviewing test specification and working with OEMs to update test cases based on requirements.
- ❖ Providing and discussing test results with OEMs in meetings and on Daisy.
- ❖ Providing on sight issues investigation as needed.

Harman International, Novi, MI (April/2013 – Aug/2017)

Senior Software Design & Development Lead (Connected Vehicles)

- ❖ Main point of contact for all project build and integration activities (Chrysler, Fiat, Subaru, Ferrari).
 - ❖ Identify and drive technical issue resolution with internal and external cross-functional teams
 - ❖ Lead the build and integration activities for several projects
 - ❖ Create and maintain fully automated build processes for several projects.
 - ❖ Write build and deployment scripts.
 - ❖ Assumes responsibility for planning, design, implementation, and testing for assigned integration components
 - ❖ Prepare and report project status to senior management
 - ❖ Prioritize & execute tasks in a high-pressure environment and shift priorities, demands and timelines.
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Continental Automotive Systems, Michigan, USA (May/2011 - April/2013)

Senior Software Requirement Engineer

- ❖ Responsible for all customer software requirements in North America (GM, Ford, Chrysler, Fiat, & Honda).
- ❖ Reviewing customer specifications and create internal specifications from customer requirements
- ❖ Dissection of customer specification into software requirements.
- ❖ Creating traceability between customer and internal requirements. .
- ❖ Reviewing and identifying software changes with the developers.
- ❖ Prioritizing functional requirements based on SW release level.
- ❖ Initiate internal requirement review with developers.
- ❖ Planning and identifying software changes with the developers.
- ❖ Identifying high risk design requirements and propose risk mitigation.
- ❖ Initiate external requirement reviews with customers.
- ❖ Working with project managers to prioritize functional requirements based on SW release level.
- ❖ Importing requirements into the MKS-RM tool.

EBS Software Test Lead (January/2009 - May/2011)

- ❖ Supporting all Ford projects software testing for the Electronic Brake System (EBS).
 - ❖ Defining test plan schedules for all Ford projects.
 - ❖ Designing test coverage for DIAG, BUS and FSF areas.
 - ❖ Writing test scope coverage for each release level.
 - ❖ Defining the proper testing for each release level.
 - ❖ Scheduling the required testing for each release level.
 - ❖ Working with project managers and developers to ensure that all deadlines are met.
 - ❖ Working with validation engineers to ensure all requirements and testing are met.
 - ❖ Ordering the necessary parts for the validation team.
 - ❖ Working with developers & requirement engineers to analyze test results and ensure that all script issues are defined and will be fixed for the following release level.
 - ❖ Manual testing for all software changes that come after finishing simulated testing.
 - ❖ Writing test report for each release.
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American Axle & Manufacturing, Michigan, USA (April/2008 – January/2009)

Electronic Product Engineer

- ❖ Research & development on Torque Transfer Device (TTD) and Limited Slip Torque Device (LSTD).
 - ❖ Writing and integrating MATLAB/ Simulink Software using code generation.
 - ❖ Simulating & Debugging Software.
 - ❖ Gathering data for the software by bench and vehicle testing.
 - ❖ Analyzing the behavior of the data and performing the required fixes.
 - ❖ Writing requirement documentations for the software.
 - ❖ Setting up environments by simulating the necessary module for development benches.
 - ❖ Designing human machine interface (HMI) in the vehicle environment using CANape
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Continental Automotive Systems, Michigan, USA (May/2006 - April/2008)

Verification Engineer

- ❖ Writing Test plans from Customer Product Specification.
 - ❖ Working with Software developers to understand and solve Software issues.
 - ❖ Analyzing data traces to find and solve software issues.
 - ❖ Manual and simulated software testing for Electronic Control Units (ECU):
 - ❖ Diagnostic Testing: Testing per spec.
 - ❖ BUS Communication Testing: Testing per spec.
 - ❖ Failsafe Testing: Testing per spec.
 - ❖ FMVSS Testing: Testing per spec.
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TECHNICAL SKILLS

- ❖ Customer-service oriented.
- ❖ Excellent time management.
- ❖ Excellent verbal and written communication skills.
- ❖ Self-motivated team player and highly organized.
- ❖ Attention to detail and accuracy of facts and documentation.
- ❖ Ability to manage multiple priorities and work independently.
- ❖ High level of problem-solving skills and able to follow through on tasks.
- ❖ High complex signal processing system design and analysis.
- ❖ Sequential Monte Carlo and Kalman filtering system design and analysis.
- ❖ Black Box testing Techniques.
- ❖ Jira, ODA, SAP tools, Jenkins, and Elvis.
- ❖ Infotainment validation (Bench, Vehicle, etc...).
- ❖ MATLAB/Simulink.
- ❖ Building and repairing Computer PC system.
- ❖ CANoe, DOORS, Datalyser, CANape, and CANalyzer.
- ❖ Digital Logic and Microprocessor design.
- ❖ Excellent Knowledge with CAN, MOST, GMLAN and GMLIN.
- ❖ Automatic Control System, VB, C/C++, Assembly.
- ❖ Automation Testing.
- ❖ Diagnostic tools (CDA and OBD).
- ❖ Requirement design tools.
- ❖ FMEA and DFMEA.
- ❖ Microsoft Applications (Word, PowerPoint, Excel, Access).
- ❖ Microsoft Windows.

PUBLICATIONS

- [1] A. Abdallah, and M. Zohdy, "Evaluation of EKF Based Receiver for Bluetooth in Presence of IEEE 802.11 Interference" published in International Journal of Advanced Research in Computer and Communication Engineering, February 2016.
- [2] Abdallah, A. Nsour, M. Zohdy, and J. Li, "GFSK Demodulation Using Sequential Monte Carlo Technique," Wireless Communications Letters, IEEE , vol.4, no.6, pp.621-624 Dec 2015.
- [3] A. Abdallah, A. Nsour, and M. Zohdy, "A New GFSK Demodulation Technique using EKF in Bluetooth Receivers" in International Journal of Advanced Research in Computer and Communication Engineering Vol. 4, Issue 7, July 2015.
- [4] A. Nsour, A. Abdallah, and M. Zohdy, "Non-coherent detection of GFSK using Extended Kalman Filtering for Non-Gaussian noise," in Wireless Telecommunications Symposium (WTS), 2014 , vol., no., pp.1-6, 9-11 April 2014.
- [5] A. Nsour, A. Abdallah, and M. Zohdy, "Phase tracking in Bluetooth receivers using Extended Kalman Filtering," in Wireless Communications, Vehicular Technology, Information Theory and Aerospace Electronic Systems (VITAE), 2013 3rd International Conference on , vol., no., pp.1-5, 24-27 June 2013.
- [6] A. Nsour, A. Abdallah, and M. Zohdy, "An investigation into using Kalman filtering for phase estimation in Bluetooth receivers for Gaussian and Non-Gaussian Noise," in Electro/Information Technology (EIT), 2013 IEEE International Conference on , vol., no., pp.1-5, 9-11 May 2013.
- [7] A. Nsour, A. Abdallah, and M. Zohdy, "GFSK phase estimation using Extended Kalman filtering for Non-Gaussian noise," in Electro/Information Technology (EIT), 2013 IEEE International Conference on , vol., no., pp.1-5, 17-19 April 2013.

AFFILIATIONS/MEMBERSHIPS/AWARDS

- ❖ Jordanian Engineering Association (Since 2018)
- ❖ TAU BETA BI: Engineering Honor Society (since 2005).
- ❖ ETA KAPPA NU: Engineering Honor Society (Graduate level since 2008).