BRIAN SUN
ELECTRONICS ENGINEER

12520 SPRINGWOOD DR.
OKLAHOMA CITY, OK 73120
MOBILE: (505)410-5524
EMAIL: BRIAN.SUN@US.AF.MIL | BMS_2010@HOTMAIL.COM

WORK EXPERIENCES

76th Software Engineering Group
07/2014 to Present

Electronics Engineer (D.O.D Civilian)

Deputy Chief Engineer for Open Architecture Management Office (OAMO) participating in working meetings contributing to the development of OMS, an industry led Open Architecture standard.

Led Agile software development teams in advanced development team by communicating customer requirements to team and ensuring features developed align with customer needs as a Product Owner.

Led Agile software development teams in advanced development team by facilitating agile and removing impediments preventing the team from developing software by serving as the Scrum Master.

Subject matter expert for STITCHES software providing guidance to program offices on STITCHES compared to OMS.

Wrote white paper on STITCHES communicating the benefits and shortcomings of the product.

Led Team developing software for DARPA to rapidly integrate software in flight systems by deriving requirements from customer concept.

Architected new OMS Enclave for E-3 block 40/45 upgrade and assisted in drafting Government Reference Architecture written by program office.

Developed Java resource manager, passive optical simulator and situational awareness viewer for Open Architecture systems.

New Mexico Institute of Mining & Technology
05/2013 to 05/2014

Research Assistant (Electrical Engineering Department)

Developed FPGA software for fringe tracking
Integrated software and hardware
Devised and implemented testing strategies
Oversee project development

76th Software Maintenance Group
07/2013 to 07/2014

Software Maintenance Intern (D.O.D Civilian)

Researched Electricity and Magnetism modeling techniques
Wrote technical documents regarding researched techniques
Assisted in routine server maintenance
Assisted in supercomputer transformation

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EDUCATION

University of Oklahoma
May 2020 / Present

Doctor of Philosophy
Electrical and Computer Engineering

University of Oklahoma
May 2016 / 3.43 Honors

Master of Science in Electrical Engineering
Thesis: Digital Radar Implementation with System Response Compensation through Amplitude Predistortion

New Mexico Institute of Mining & Technology
May 2014 / 3.17 Honors

Bachelor of Science in Electrical Engineering
Minor in Mechanical Engineering

SKILLS

Programming

Matlab, Java, SQL, C, Verilog (worked with FPGAs)

Software

LabVeiw, Code Warrior (Microcontrollers), SolidWorks, Scripting, GIT Repository, Linux, Gitlab, Atlassian Tools, LaTeX, Multisim Prototyping (created custom PCB board)

PUBLICATIONS

May 2019

B. Sun, M. Yeary, H. Sigmarsson, and J. McDaniel, "Fine Resolution Position Estimation using Kalman Filtering". 2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) (I2MTC 2019), Auckland, New Zealand, May 2019.

May 2017

B. Sun, M. Yeary, F. Uysal, N. Goodman, C. Fulton, R. Rincon, "Digital Radar Implementation with Amplitude Predistortion," IEEE Radar Conference, pp. 1691-1696, Seattle, WA. May, 2017.

July 2014

B. Sun, A.M. Jorgensen, M. Landavazo, D.J. Hutter, G.T van Belle, David Mozurkewich, J. T. Armstrong, H. R. Schmitt, E. K. Baines, S.R. Restaino, "The new classic data acquisition system for NPOI," Proceedings of SPIE, Vol. 9146, July, 2014.