Email: 360wcui@gmail.com Tel: 360-609-7502

Wei Cui

SUMMARY OF QUALIFICATIONS

- Strong analytical and problem-solving skills.
- Ability to work independently and to meet deadlines with constantly changing priorities.
- A good follower, a role player, a quick learner, and a team player. Proactive and easy going.

EDUCATION

University of Washington

2010 - 2013, Seattle, WA

MS in Electrical Engineering

GPA: 3.74/4

SKILLS: Java, C#, Python, C/C++, Linux, PHP, Drupal, AJAX, JavaScript, Nodejs, MySQL. Computer Programming, Web Programming, Microcomputer/Embedded Systems, Data Structures and Algorithms, Statistical Learning, Machine Learning, Artificial Intelligence, Computer Vision. Github: 360wcui

Washington State University

2008 - 2010, Vancouver, WA

MS in Mechanical Engineering

GPA: 4.00/4

SKILLS: AutoCAD, SolidWorks, CoventorWare. ANSYS, MATLAB, Advanced Control Theory, System Integration, Structural Analysis, Nanotechnology, Microfabrication Technologies, Semiconductor Devices, Micro-electro Mechanical Systems (MEMS), VLSI, Automation.

Fudan University

2004 - 2008, Shanghai, China

BS in Aerospace and Aeronautical Engineering

GPA: 3.00/4

SKILLS: Finite Element Analysis, Advanced Dynamics, Structural Vibrations, Control Theory, Aircraft Design, Aerodynamics, Fluid Mechanics, Solid Mechanics.

RELATED EXPERIENCE

Cybersecurity Engineer, Enterprise Ground Services, US Air Force

Los Angeles AFB, 2016 – Present

- Software Development Kit (SDK) Scrum Lead
 - Lead a group of six contractors to develop, maintain, and test the SDK of EGS that is consistent with the Interface Specification Documents (ISDs)
 - o Develop Bus Monitoring Tool in Java FX and demonstrate its capabilities in the IDRs.
 - O Defend the government to own the data rights and common interfaces that are interpretable by various mission partners.
 - Coordinate with the software developers of the mission unique software (MUS) and ensure SDK compliancy.
- CompTIA A+, Network+, Security+, and CSFI Defensive Cyber Operations Engineer certified.
- 3/13 Directorate 2nd Lt (SMC/CV), vital Cyber Division superior engineer.

Financial Management Technician, US Army

Joint Base Lewis-McChord, WA, 2014 - 2016

- Developed ATHENA in Java (20MB) to streamline the operation in the office on my own initiative.
 - o Guarantees 90% efficiency increase and 100% accuracy with ATHENA.
 - O Saves the government almost \$2M on man hours and office supplies every year.
 - o Approved by Defense Finance and Accounting Services (DFAS) and deployed in the Army worldwide.
 - o Processed military pay for 30,000+ military soldiers, Section Lead.

Software Engineer Intern, Sensoria

Redmond, WA, 2013

• Design and develop user interface with .NET WPF and Android SDK.

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- Apply classification and machine learning to health monitoring systems.
- Develop data visualization service for better user experience in Java 3D.

Research Assistant, University of Washington, Electrical Engineering

Seattle, WA, 2010 - 2013

- **Project**: Optimization of High-dimensional Systems
 - o Develop simulation efficient high-dimensional regression models using Gaussian processes.
 - o Invent novel sampling techniques for design of high-dimensional systems.
 - o Apply multivariate statistical analysis, Markov chain Monte Carlo, kernel methods, GA, particle swarm optimization, PCA to real engineering problems.
 - o Publish three first-author papers.
- **Project**: 3D inkjet printing system and MEMS optical scanner
 - Develop 3D inkjet printing station and fast design and optimize MEMS optical scanner for endoscope purposes.
 - o Publish four first-author papers.

Teaching Assistant, University of Washington, Electrical Engineering

Seattle, WA, 2010 - 2013

- Embedded Systems (undergraduate and graduate levels): Course syllabus design and project work on TI Stellaris ARM Cortex-M3 microprocessor, and Raspberry Pi. Integrate webservers, FreeRTOS on the embedded systems.
- VLSI: Layout and schematic design of SRAMS, adders, and multipliers in HSPICE and Cadence.
- Computer Aided Design and Analysis: Develop HSPICE alike circuit simulators in C.

Research Assistant, Washington State University

Vancouver, WA, 2008 - 2010

• Fast simulation and finite element analysis of high-performance MEMS gyroscopes in CoventorWare with feedback control.

PUBLICATIONS

- [1]. **W. Cui**, A. Sathanur, V. Jandhyala, "Simulation-based Design of High Dimensional Electromagnetic Systems," 21st conference on electrical performance of electronic packaging and systems (EPEPS), Tempe, AZ, USA, October 21-24, 2012.
- [2]. **W. Cui**, V. Jandhyala, "High-dimensional electromagnetic design sensitivity," 2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, Chicago, IL, USA, July 8-14, 2012.
- [3]. **W. Cui**, S. Swagato, V. Jandhyala, "Large orthogonal array-based optimization for high-dimensional parametric systems," 2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, Chicago, IL, USA, July 8-14, 2012.
- [4]. **W. Cui**, C. L. Chang, W. C. Wang, "PEDOT pillar fabrication using DOD inkjet system," SPIE Symposium on Health Monitoring of Structural and Biological Systems 8348, 834819, San Diego, CA, 2012.
- [5]. W. Hua, W. C. Wang, W. Wu, C. L. Tsui, **W. Cui**, W. Shih, "Development of 2-D microdisplay using an integrated microresonating waveguide scanning system," Journal of Intelligent Material Systems and Structures, 22(14), 2011, 1613-1622. (I did ANSYS simulation of PZT scanner and data visualization)
- [6]. **W. Cui**, W. C. Wang, "Design and optimization of a low frequency non-resonant scanning endoscope operating at large damping," International Symposium on Optomechatronic Technologies, IEEE ISOT 2011, Nov 1-3, Hong Kong.
- [7]. K. Gu, C-C. Lee, **W. Cui**, M. Wu, W. C. Wang, "Design and fabrication of mechanical resonance based scanning endoscope," The 16th International Conference on Solid-State Sensors, Actuators and Microsystems, IEEE Transducers 11, Beijing, China, June 5-10, 2011, 1574-1577. (I did the fast simulation

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- and design of the MEMS scanner in Matlab and CoventorWare)
- [8]. **W. Cui**, W. Xue and X. Chen, "Compensator design for a MEMS gyroscope with quadratic optimal control," ASME DETC/CIE, DETC2010-28533, Quebec, Canada, 2010.
- [9]. **W. Cui**, X. Chen and W. Xue, "Robust compensator control of a non-resonant MEMS gyroscope with linear quadratic regulator," ASME IMECE 10, IMECE2010-38871, British Columbia, Canada, 2010.
- [10]. X. Chen, **W. Cui** and W. Xue, "Process modeling and device-package simulation for optimization of MEMS gyroscopes," Journal of Computer-Aided Design and Applications, 6(3), 2009, 375-386.
- [11]. **W. Cui**, X. Chen and W. Xue, "Design optimization for a non-resonant MEMS gyroscope," ASME IMECE 09, IMECE2009-10812, Florida, USA, 2009.

HONOR AND AWARDS

- Army Commendation Medal (2nd Award)
- Army Achievement Medal (2nd Award)
- Global War on Terrorism Service Medal
- National Defense Service Medal

June, April 2016

Aug 2015, June 2014

June 2014

April 2014



Wei Cui

has successfully completed the requirements to be recognized as





COMP001021140083

CANDIDATE ID

April 06, 2017

CERTIFICATION DATE

EXP DATE: 01/02/2021

TODD THIBODEAUX, PRESIDENT & CEO

Code: HLLBX0GNJPVE1450

Verify at: http://verify.CompTIA.org



Wei Cui

has successfully completed the requirements to be recognized as





COMP001021140083

CANDIDATE ID

September 22, 2017

CERTIFICATION DATE

EXP DATE: 01/02/2021

TODD THIBODEAUX, PRESIDENT & CEO

Code: CV64BT9HJKQ1QBKG

Verify at: http://verify.CompTIA.org



Wei Cui

has successfully completed the requirements to be recognized as





COMP001021140083

CANDIDATE ID

January 02, 2018

CERTIFICATION DATE

EXP DATE: 01/02/2021

TODD THIBODEAUX, PRESIDENT & CEO

Code: DM6Q1LSP3H4E1E3E

Verify at: http://verify.CompTIA.org