

TERRELL KENDALL GLENN, PH.D.

Hardware Engineer II – Strategic Planning & Architecture



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Seattle, WA

EXECUTIVE SUMMARY

Multifaceted engineer pursuing a new opportunity within the user experience (UX) realm to advance my career. I possess a **comprehensive background in conducting qualitative and quantitative research, project management, data analysis, product design and development and working with key cross-functional and multi-disciplinary stakeholders to execute strategic planning.** I am confident that my stellar problem-solving, leadership, project management, communication, relationship building, and analytical skills, as well as my ability to translate research findings into strategic narratives, will validate my qualifications for this professional opportunity.

EXPERTISE

- Infrastructure Planning
 - Product Design & Development
- Artificial Intelligence (AI)
 - Project Management
 - Research Methods
 - Quantitative and Qualitative Data Analysis

Technical Skills:

R, C#, C, JavaScript, C++,
Unity 3D, Unreal Engine,
MATLAB, Python, Figma,
CAD, & High-Performance

Computing

-Autodesk Suite

-MS Office Suite

Intermediate German

EDUCATION

Doctor of Philosophy
(Ph.D.), Mechanical
Engineering
(Human-Computer
Interaction)

Thesis: Empowering Youth
to Design, Build and Play
Through Interactions with
Augmented Reality, Physical
Prototyping and the
Internet of Things
GPA: 3.62/4.00
Purdue University

Bachelor of Science (B.S.),
Physics
GPA: 3.66/4.00
Morehouse College

PROFESSIONAL EXPERIENCE

Hardware Engineer II – Strategic Planning & Architecture

Microsoft Corporation, Redmond, WA | May 2022 – Present

- **Lead infrastructure planning with a 5-6 year outlook (i.e., power, cooling, networking, etc.) for 15 nationwide data centers that support leading clients such as OpenAI.**
- Partner with key internal stakeholders within supply chain management, engineering (mechanical, thermal and electrical), strategic planning, and technical program management to execute product development based on customer/end-user requirements.
- **Create roadmaps, analyze artificial intelligence (AI) workloads, analyze program requirements, gather requirements, and align technology with end-user expectations.**
- **Analyze key performance indicators (KPIs)/metrics** related to total cost of ownership (TCO) which include but are not limited to server lifecycle, Capex/OpEx costs, and product recycling.
- **Lead quarterly competitive intelligence infrastructure analysis & update senior leadership;** identify, evaluate and analyze new emerging technology within power, cooling, networking, and rack structure at key competitors such as Meta, AWS, Google and Nvidia.
- **Gather insights/market research** from external sources including Data Center Dynamics and Semi Analysis, as well as internal sources such as sourcing/supply chain management, to identify competitor trends.
- **Strong project management skills;** lead planning meetings, create agendas, manage relationships with key stakeholders, and create schedules for the product development timeline.
- Proven ability to work on a hybrid basis while exceeding performance expectations.

Key Highlights, Projects & Accomplishments:

- **Vertical Power Delivery:** Currently collaborating with a team of technical stakeholders within supply chain, engineering, planning and sourcing to develop a proof of concept to deploy power delivery technology for future AI workloads; this project is expected to improve power delivery efficiency by ~12% (ongoing, results pending).
- **Data Center – Security Control Module (DC-SCM):** Utilizing the latest DC-SCM standards/best practices from the Open Compute Project (OCP) to determine the necessity/value analysis of deploying a new DC-SCM versus retaining the legacy DC-SCM.

- A proposed deployment of a new DC-SCM would deliver an expected 1% TCO decrease.

- **Standalone Rack-SCM:** Collaborated with a team of technical stakeholders within supply chain, engineering, planning and sourcing to develop a next-gen rack management solution affecting ~9.2% of first-party racks.

Product Design Consultant, Flare Tech: Laser & Design LLC, Redmond, WA | January 2020 – Present

- **Lead the design and development of hand-crafted items for small businesses and individual customers using raw materials including but not limited to acrylic, wood, paper, metal, glass and foam.**
- **Utilize AutoDesk Inventor and Adobe Creative Suite (i.e., Illustrator and Photoshop) and Silhouette Studio** to create prototypes and products for customers.
- Strong expertise in product development, project management, laser cutting, fabrication consultation and time management.

Key Highlights, Projects & Accomplishments:

- **Created 10 award plaques for Alpha Phi Alpha Fraternity Inc.'s Indiana District Conference in 2022,** as well as conference gifts for 150+ attendees.

TERRELL KENDALL GLENN'S RÉSUMÉ (PAGE 2)

Graduate Research Assistant, Purdue University, West Lafayette, IN | August 2016 – June 2022

- Conducted quantitative and qualitative research with an emphasis on developing Augmented Reality (AR) and Internet of Things (IoT) technologies for youth aged 12-18.
- Performed studies on 150+ youth and spearheaded a new technology, an end-to-end system in which study participants were able to design and program interactions between digital content and electromechanical devices.
- **Served as a Summer Project Coordinator** in the summers of 2020, 2021 and 2022 as part of the Purdue Minority Engineering Program.
- **Served as Lead Instructor for the Gifted Education Research & Resource Institute from June 2017 – May 2020**; designed and implemented a series of two-week **Smart Toys & Robots** workshops geared towards Middle and High School Students.

Software Engineering, Intel Corporation, Santa Clara, CA | Summer 2016

- Utilized Intel's newest chip (Skylake) to develop various computer configurations based on customer requirements to test product workloads; key clients included but were not limited to Apple Dell, AutoDesk, HP.
- Measured Computer Processing Unit (CPU) and Graphical Processing Unit (GPU) performance to drive future product design at Intel.
- Analyzed performance metrics, investigated adjustable parameters provided by customers, and modeled product performance.
- Identified the next generation of workloads on which Intel's newest products must excel to be successful.
- Experience in using "R" programming language to execute data analysis to create reports which were sent to clients for additional review.

PUBLICATIONS

- Anaya Ipsita, **Terrell Glenn**, Disha Bhagwat, Nielsen Pereira, Kylie Pepler, and Karthik Ramani. 2025. Adopting Backward Design into a Constructionist Curriculum Design for IoT Skill Development in High Schoolers. Adjunct Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinery, Paper Link: <https://tinyurl.com/45zf6kxp>
- **Terrell Glenn**, Anaya Ipsita, Caleb Carithers, Kylie Pepler, and Karthik Ramani. 2020. StoryMakAR: Bringing Stories to Life With an Augmented Reality & Physical Prototyping Toolkit for Youth. 2020 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinery, Paper Link: <https://tinyurl.com/mtdhear4>
- Karthik Ramani, **Terrell Glenn**, Caleb Carithers, Anaya Ipsita. 2022. System and method for authoring augmented reality storytelling experiences incorporating interactive physical components. US Patent # US11468650B2.
- Yuanzhi Cao, Zhuangying Xu, **Terrell Glenn**, Ke Huo, and Karthik Ramani. 2018. Ani-Bot: A Modular Robotics System Supporting Creation, Tweaking, and Usage with Mixed-Reality Interactions. 12th International Conference on Tangible, Embedded, and Embodied Interaction. Association for Computing Machinery, Paper Link: <https://tinyurl.com/29bhsc8>
- Temitope Adeoye, Myson Burch, **Terrell Glenn**, Rachel Scarlett, De'Shovan M. Shenault. 2021. Mentoring Black Teens During National Pandemics: Mutually Beneficial Service. Purdue Journal of Service-Learning & International Engagement, Paper Link: <https://tinyurl.com/yy25xan2>

PROFESSIONAL AFFILIATIONS & INVOLVEMENT

Member, Alpha Phi Alpha Fraternity, Inc., 2017 – Present

- Initiated via the Iota Lambda Chapter in Indianapolis, IN in November 2017; Served as the STEAM Committee chairman to lead workshops for local youth aged 12-18 and prepare them for STEAM fair presentations
- Current member of the Zeta Pi Lambda Chapter in Seattle, WA; Serve as a Board Member for the Seattle Alphas Education Foundation and the Director of Education for the Zeta Pi Lambda Chapter

Member, National Society of Black Engineers (NSBE), 2013 – Present

FELLOWSHIPS

The National Science Foundation Graduate Research Fellowship Program
The National GEM Consortium (Sponsor: Intel Corporation)
