

CHARLOTTE M. KINDALL

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WORK EXPERIENCE

Additive Manufacturing Design Engineer Chicago, IL

Xylem
Oct. 2022 – Jul. 2026

3D SYSTEMS LARGE-FORMAT STEREOLITHOGRAPHY (SLA) ▪ STRATASYS FUSED DEPOSITION MODELING (FDM)

- Owner-operator of Applied Water Systems Additive Manufacturing Lab, a New Product Development initiative.
- Design and production of **functional prototypes**, manufacturing fixtures/tooling, training resources, etc.
- Development of automated order 'portal'; project intake, revision control, consumables tracking, expense logging.
- Administration of ground-up Lab Renovations, sourcing equipment and ensuring facility requirements.
- Application of equipment-specific **Design for Additive Manufacturing (DfAM)** principles.
- Acting subject matter expert for additive manufacturing, consulting on wide-ranging projects across NA teams.

3D Manufacturing Technician III Chicago, IL

SyBridge Technologies (Prev. Fast Radius)
Jan. 2021 – Oct. 2022

CARBON DIGITAL LIGHT SYNTHESIS (DLS) ▪ HP MULTI-JET FUSION (MJF) ▪ FORMLABS STEREOLITHOGRAPHY (SLA)

- Design and administration of **Gemba Kaizen** continuous improvement efforts, increasing overall process efficiency.
- Direct involvement with early validation/repeatability efforts, identifying operational bottlenecks and writing SOPs.
- Worked among multidisciplinary teams, ensured quality standards in time-critical applications.

Intern, Workforce Development and Education Sparks, NV

Tesla Motors
Sep. 2019 – Dec. 2019

- Aided in philanthropic initiatives through the Education Investment (**\$37.5M funding of K-12 education** programs).
- Researched and initiated contact with executive staff of local STEAM-focused nonprofits, evaluated existing programs and relative impact/cost relationships, 'pitched' new opportunities to senior Tesla staff.

Curriculum Writer/Lead Educator, Camps Seattle, WA

Pacific Science Center
Jun. 2017 – Dec. 2019

- Led STEM-focused K-12 summer/winter programs focusing on robotics, chemistry, arts, coding, etc.
- Ground-up redevelopment of two weeklong curriculum packets, 'Dinomatronics' and 'Robotic Rangers', adapted additional courses from Arduino to micro:bit, a more age-accessible programming environment.

EDUCATION

BS Mechanical Engineering Minor Unmanned Autonomous Systems

University of Nevada, Reno
Aug. 2015 - May 2020

- Design of various application-specific robotics projects, unmanned aerial vehicles, 3D printers, etc.
- Utilized campus makerspace, realization of concepts using full range of tools + techniques available.
 - Mechanical Design ▪ High-Tech Entrepreneurship ▪ Digital Control Systems ▪ Aerodynamics ▪ Mech. Vibrations ▪ Fluids/Thermodynamics ▪ CAD + Manufacturing ▪ Internal Combustion Engines ▪ Alternative Energy Methods ▪

CERTIFICATIONS + SOFTWARE + SKILLS

SolidWorks: Mechanical Design Associate (CSWA)

Mar. 2019

NCEES: FE Mechanical (EIT)

Mar. 2020

- Autodesk Fusion 360 / Netfabb / EAGLE ▪ nTopology ▪ Arduino IDE ▪ MATLAB ▪ Oqton 3DSPRINT ▪
- Adobe InDesign / Photoshop / Premiere Pro ▪ Microsoft Office (Word / PowerPoint / Excel / Outlook) ▪

Rapid Prototyping; PCB Design; Interdisciplinary Collaboration; Adaptability; Resourcefulness;
Critical Thinking; Systems Analysis; Strategic Planning; Curiosity; Continued Learning