Alex Averill

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PROFESSIONAL EXPERIENCE

Exhibit Fabricator/ Educational Technology Technical Lead   Sept 2014-Present

University of Texas at Dallas- Science and Engineering Education Center

- Designed, developed and maintained a robust set of Mobile Educational Laboratories (educational science exhibits) placed in public venues such as museums and libraries. Exhibits involved a range of hardware including touch screen technology, A/V devices, optics and filters, AC/DC motors and electronics, educational manipulatives and a range of operating systems and software packages. Developed and implemented systems to capture usage statistics of exhibits; monitor and report usage on an ongoing basis. Over 60,000 learners of all ages use the exhibits annually.
- Expanded the center's computer science (CS) offerings. Created 5-part kitted workshop introducing learners to the basics of computers, programming and electronics. Incorporated Raspberry Pi, SenseHat and Lilypad Arduinos. Also introduced six additional CS-based exhibits now used by public libraries throughout Texas. Combined, the workshop and additional exhibits have grown participation in CS-offerings 225% in the last 3 years.
- Additional responsibilities included: created and maintained documentation on all exhibits; maintained a clean, organized, and safe fabrication facility, providing tool training and maintenance as needed; onboarding of new employees; supervised interns and outreach volunteers; and provided ongoing technical support for departments information technology and AV equipment.

Project Team Lead   Aug 2017 - Dec 2017

University of Texas at Dallas and Alliance Data/ Senior Design

- Ensured team stays on task and on target as we create a customized Graphical File Management system for Alliance Data. This entails articulating key deliverables, identifying critical paths and developmental milestones, delegating tasks, creating and maintaining team documentation, and facilitating ongoing team communication to ensure success.

SKILLS SUMMARY

Software; Microsoft Office, CAD (PTC Creo, Fusion 360), 3D Printing Slicers, Microsoft Windows, Linux, Git/Github, Google Drive, Adobe Creative Suite, Google Analytics
Hardware: CNC Machines, 3D Printers, Arduino, TI Launchpads, Raspberry Pi.
Languages: Proficient in C++, Java, C#, JavaScript/jQUery, PHP, Arduino C, SQL, HTML/CSS, Python
Frameworks: Experience with QT, WPF, Bootstrap, Unity (Basic level)
Tools: Skilled with Circular Saw, Miter Saw, Table Saw, Band Saw, Scroll Saw, Drill Press, Router, Drills, Impact Driver,Angle Grinder, Hand Saw, Hand Tools.

EDUCATION

Bachelor of Science in Software Engineering

University of Texas at Dallas, May 2018