Juergen Pfau Melih

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A hardworking, detail oriented professional and learner. Constantly pushing my comfort zone and looking for results in everything I create, build, or lead. I have a passion for tech, simplification and automation.

Areas of Expertise:
- Java
- C++
- Wireframing
- Project planning
- Cost benefits analysis
- Python
- Leadership
- Technical specifications development
- Debugging/troubleshooting
- Unit testing
- Unity
- C#
- Fluent in Spanish
- Fluent in German
- Mongo
- MySQL
- Financial Services
- Customer Service

Projects:
Neonatal intensive Care Unit:

Project manager for a design project with Southern New Hampshire Medical Center's NICU to develop a prototype for an improved incubator which would automate processes which could ease the workload for short-staffed nurses.
This project included documenting the deliverables as well as understanding the budget constraints. Additionally, technical documentation for deployment and maintenance was created.
As project manager, I implemented agile methodology for the group and divided tasks between each of the 4 teammates.
I developed the code in Arduino to display incubator thermals and to periodically rock the baby via stepper motor. When incubator thermals dropped below appropriate temperatures, a heating element implemented in the design of the incubator would activate and warm the baby.

Engineering design II
Elevator:
Project Manager for Engineering design II project. This elevator was designed completely in house, using an Arduino microcontroller and aluminum parts machined by me.
Using gear theory and engineering design principles, the team I managed developed an elevator which would use an ultrasonic proximity sensor to determine when it was approaching the floor it was stopping at.
Over the course of 16 weeks, this project was developed completely from scratch using the Agile methodology with work distributions set by me, as well as 40 pages of documentation developed collaboratively by the team.

EDUCATION

Southern New Hampshire University   2018-2021
BS-Computer Science

Learned to:
- Apply collaborative strategies for software projects
- Create a portfolio of software applications
- Develop software with agile software methodologies
- Gain experience with full-stack development
- Develop a security mindset

Southern New Hampshire University   Currently Enrolled
MS. Data Analytics

- Organize, manipulate, and summarize data in various formats.
- Convert a data analytic problem and related information into a proper mathematical representation and select appropriate methodologies for analysis based on attributes of the available data sets.
- Implement security measures and ethical practices for the collection and storage of data.
- Transfer (and transform) data from different platforms into usable contexts.
- Communicate and summarize results of data analysis in written, oral and visual form.
- Select the appropriate methods and tools for data analysis in specific organizational contexts.
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PROFESSIONAL EXPERIENCE

Southern New Hampshire University   2021 – Present
International Admissions Counselor
Provide financial aid assistance to incoming and current students at the university.
- Assist students globally in English/Spanish/German
- Handles admission-related immigration issues for current and prospective students.
- Respond to requests and inquiries from prospective applicants regarding the college's programs and services

Southern New Hampshire University   2020 – 2021
Financial Aid Counselor
Provide financial aid assistance to incoming and current students at the university.
- Assisted via phone and email assistance to students globally.
- Troubleshoot issues with student accounts.
- Created tailored financial plans for each student to successfully receive the funding they need for their education.
- Awarded scholarships based on extenuating circumstances and as reward for demonstration of excellent performance.
- Develop code to make my day to day work easier.

Southern New Hampshire University   2018 – 2020

College of Engineering, Technology and Aeronautics lab Assistant
Provided assistance to engineering students across all projects
- Demonstrated and assisted students on how to use professional machinery (CNC, Vertical mill, 3D printer, lathe).
- Assisted students with Arduino based robotics projects.
- Developed lesson plans and educational videos for workshops.