Saeid Amiri

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Summary

Recent graduate of Mechanical engineering with experience in fountain systems and material handling, extensive knowledge in CAD and CAE tools. Hands-on experience creating mechanical design drawings using SolidWorks and configuring components using AutoCAD.

Work Experience

May 2016 – Present **Mechanical Engineer**, FOUNTAIN-WORKS, LLC, Houston, TX.
- Proposed a cost-effective solution for repairing a million dollar fountain project
- Collaborated with engineering and field inspection teams to design and draft retrofit solutions for electrical and mechanical applications.
- Designed and rendered the overall projects layout using Solidworks and generated the drawings of the piping arrangements of fountain systems using Autocad.

Jan 2013 – Dec 2013 **Mechanical Designer**, BAFFCO, LLC, Tehran.
- Modified a pillar mounted slewing jib crane to increase the loading capacity based on detailed calculation with FEA verification
- Prepared bills of material and Engineering change notices to proactively resolve technical design issues.

Projects

Jan 2015 – May 2015 **Control of Inverted Pendulum**, RICE UNIVERSITY, TX.
- Designed analog circuit to measure position and velocity of the pendulum
- Controlled the vertical position of the inverted pendulum using Analog PD controller
- Used NI MyRIO to digitally control the inverted pendulum

Jan 2015 – May 2015 **Line Follower Robot Design**, RICE UNIVERSITY, Houston, TX.
- Designed and built an autonoumos robot capable of following a black line on the white surface.
- Sensing with IR detectors(CN70) and emitter and the computation done by Arduino Uno.

Education

2014–2016 **Mechanical Engineering**, *Masters of Science*, *University of Houston. GPA: 3.86/4.*

2008–2013 **Mechanical Engineering**, *Bachelors of Science*, *Sharif University of Technology. GPA: 3.61/4.*

Certifications

July 2016 **Certified SOLIDWORKS Associate (CSWA)**, DASSAULT SYSTEMS.

Feb 2016 **Engineer in Training, EIT**, TEXAS BOARD OF PROFESSIONAL ENGINEERS.

Skills & Abilities

Programming	LABVIEW, MATLAB
CAD	SOLIDWORKS, AUTOCAD, ABAQUS
MS Office	WORD, EXCEL, POWERPOINT
Hands-On	SOLDERING, PROTOTYPE TRAINING

Coursework

- Digital Control Systems
- Mechanical Engineering Laboratory
- Design of Mechatronics Systems
- Mechanical Engineering Design