KAVIAN KALANTARI

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PROFESSIONAL EXPERIENCE

CRB Group **May 2021 – Present**
Process Utility Intern/Engineer *Kansas City, MO*

- Used Revit to update and place vendor equipment based on client requests
    - Developed automation program that batch converts .stp files to .rfa, bypassing certain menus and using preset parameters to save time
- Created and edited P&IDs using AutoCAD Plant3D to show process flow
- Constructed pipe runs using Revit based on P&IDs and building codes

HiPower Systems **May 2019 – January 2021**
Mechanical Engineering Intern *Olathe, KS*

- Worked with the prototype team assembling generators, noting issues to be changed for newer revisions
    - Implemented some of these changes by altering sheet metal parts in Inventor and keeping track of all changes through Vault
- Ran different internal tests (sound, backpressure, impact of load, etc.) on generators with different configurations (muffler, louver style) to collect data for company catalogs and to compare with competitors

SAS Tutoring Center **August 2019 – May 2022**
Calculus 1 Tutor *Manhattan, KS*

- Led both one-on-one tutoring sessions as well as teaching lessons in a group setting
- Held review lectures before exams using prepared material

City of Olathe **Feb 2016 – Jan 2018**
Indoor/Outdoor Camp Counselor *Olathe, KS*

- Designed both fun and educational activities for groups of ~65 kids ages 5-12 (incorporating engineering)

SKILLS & EXPERIENCES

- Collegiate Wind Competition Overall 1st place, Turbine Testing 1st place (2022)
- SolidWorks (CSWA-Mechanical Design), Inventor, Vault, Revit, AutoCAD Plant3D, SketchUp
- VBA, VB.NET, iLogic, .ino, C++, C, Python, MATLAB, Batch, Git
- PID Controller Design using both Arduino and Raspberry Pi (maze solving robot, horizontal pen plotter)
- Strong 3D printing knowledge (printer maintenance, part design/orientation, advanced support structures)
- 800+ volunteer hours at the Olathe Public Library (2012-2018)
- Bilingual in Farsi and English

EDUCATION

Kansas State University **August 2018 – May 2022**
B.S. in Mechanical Engineering – 3.7 GPA *Manhattan, KS*

- Vice President of Wildcat Wind Power, a group which designs and builds a small-scale wind turbine every year *(2019– 2022)*
    - Oversaw and guided all mechanical design projects, such as active blade pitch, new blade designs, and creating a sand anchoring system
    - Contributed majorly to winning the national Collegiate Wind Competition through the design of an in-house active pitch mechanism (used for RPM regulation) and high-level team leadership
- Developed program in SolidWorks with VBA to automate buckling analysis simulations for Textron Aviation to predict failure of plates with flanged holes