David Kudrik

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Objective

Responsible, hard-working individual with wide-ranging engineering, manufacturing, and design experience. Enjoy utilizing my skills in order to find the most suitable solution to any challenge. Gladly will provide great work ethic to a suitable mechanical engineering position.

Education

Washington State University
B.S. Mechanical Engineering, May 2020

- **Coursework:** CAD, CAE, Automation, Microcontrollers, Composites Mfg, Material Science, Thermodynamics, Fluid Mechanics, Heat Transfer, Design and Manufacturing, Machine Design, Dynamic Systems and Control, Thermal Systems Design, Foundations of Aerodynamics.

Experience

SEH AMERICA
Mechanical Engineering Intern – Sustaining *August 2019 – Current*

- *Design with CAD and FEA to improve/replicate machinery parts and assemblies.*
- *Designed wafer carrier, coinstack, dove tails, CVD shuttle, mount jack models, WSB drum, and etc.*
- *Helped out solving a metal contamination issue in a CVD furnace.*
- *Daily tasks include diverse work for different wafer process engineers, working on CAD, creating plots from gathered data, writing protocols, and etc.*
- *3D printed models that designed before sending out to be manufactured with more suitable material.*

SEH AMERICA
Capstone Project *August 2019 – May 2020*

- *Design with CAD and build a system that is capable of Loading/Unloading 200mm wafers from a cassette for edge clean process.*
- *Work with clean room standards and 200mm wafer standards in order to achieve a system that would replace a manual operator for loading/unloading wafers.*
- *Team work with biweekly sponsor/professor meetings to report/present tasks that are worked on.*

Skills

- **Software:** SolidWorks/FEA, ANSYS, CURA, MATHLAB, Basic CNC, Microsoft Office, Visual Basic, PLC
- **Tools:** Lathe, Press Drill, Hand Tools, and etc.
- **Coursework:** CAD, CAE, Automation, Microcontrollers, Composites Mfg, Material Science, Thermodynamics, Fluid Mechanics, Heat Transfer, Design and Manufacturing, Machine Design, Dynamic Systems and Control, Thermal Systems Design, Foundations of Aerodynamics
- **Languages:** English, Ukrainian, and Russian

References

Available upon request.