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NUCLEAR ENGINEERING & MANAGEMENT NEW GRAD
PORTFOLIO: PATRICKDOLLOSO.WORDPRESS.COM

SUMMARY

1. **(Top)** During my research term at NSERC working under Dr. Machrafi, a consultant for the Canadian Space Agency, I produced a to-scale CAD shell of the International Space Station in AutoCAD replicating thousands of measurements in the NASA database.

2. **(2nd row, left)** the ISS AutoCAD interfacing with the radiation simulation software MCNP, the results were published in WRMISS Workshops in Radiation Monitoring for the International Space Station Conference in Cologne, Germany.

3. **(2nd row, right)** This is a CFD airflow simulation of a simplified CAD of the Bombardier Dash 8 using Siemens NX as a final project in a senior engineering course (Integrated Engineering Laboratory)

4. **(3rd row, left)** In my research term at the UOIT Clean Energy Research Laboratory, I was tasked to design an I&C interface with a peristaltic pump with an Arduino-controlled valve to throttle flow given a setpoint. This was done In LabVIEW and Arduino in C++

5. **(3rd row, right)** My Engineering Capstone project was an industry research project with OPG Ontario Power Generation under Dr. George Bereznai and Dr. Daniel Hoornweg, was to design a piping system and flowchart according to CSA N285.0, N286.2 and applicable ANSI/ASME Standards. Results were published in the Canadian Nuclear Society Scientific Journal.

6. **(Bottom 2)** During my research term in NSERC with Dr. Sergey Khulapko of ENERGIA RocketSpace Corp. in Russia, I was tasked replicate in AutoCAD, the internals of a Russian spacecraft using GD&T estimation to simulate different radiation shield thicknesses in MCNP. The results were published in the Canadian Nuclear Society Scientific Journal

CONNECT

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SAMPLE PORTFOLIO
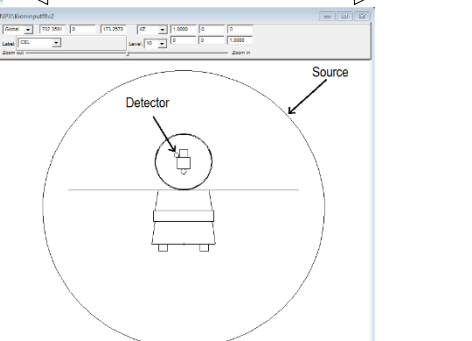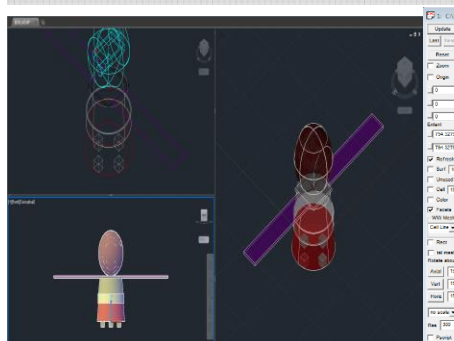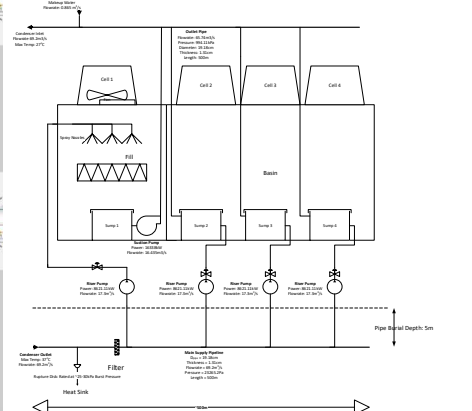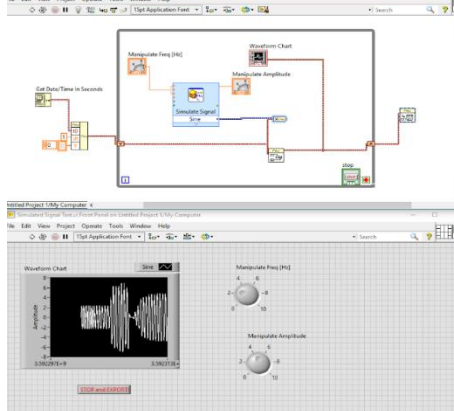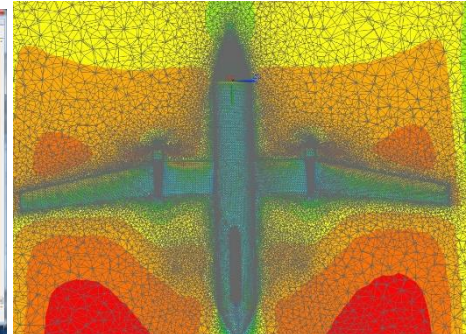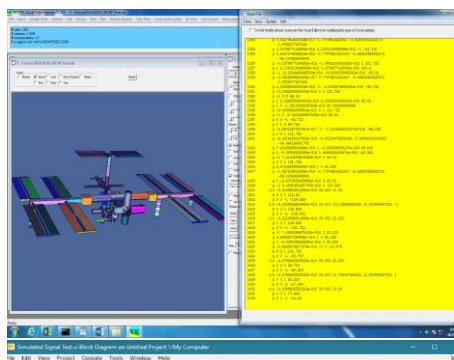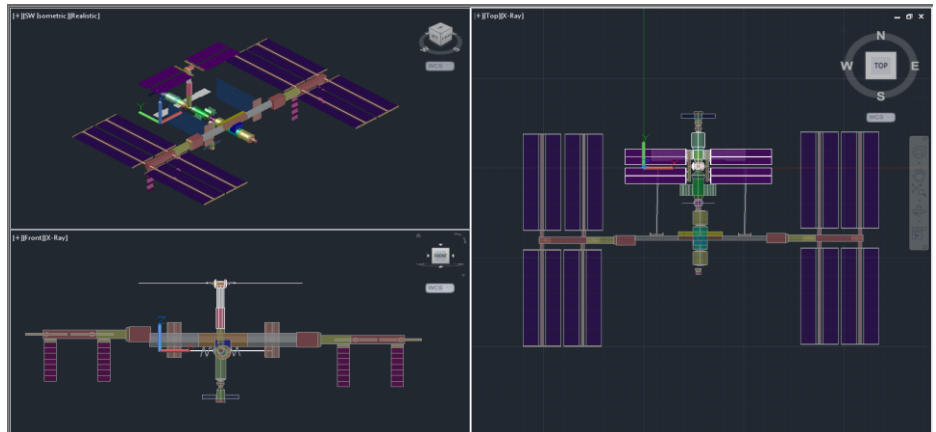
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