Ryan Charlinski

CHEMICAL ENGINEERING CLASS OF 2024, UNIVERSITY OF WATERLOO 647-741-3752 | rcharlin@uwaterloo.ca

Highlights of Skill Sets

- Experienced in planning, data analysis, report writing, and presenting root-cause analysis experiments
- Proficient in project management tools Jira, Confluence, Miro, Agile through managing and executing key projects
- Quick learner of complex concepts and manufacturing processes, able to swiftly adapt to new working environments
- Exceptional communication, collaboration, and leadership skills applied across cross-functional team projects
- Experienced in 3D and 2D CAD software SolidWorks, KeyCreator, and AutoCAD
- Proficient with Microsoft Office, JMP, Python, Aspen, Matlab, Simulink
- Strong interpersonal skills developed from 10+ years of academic activities and competitive athletics

Work Experience

DESIGN QUALITY ENGINEER | LUMENTUM **MAY - DEC 2022**

- Managed and implemented 30+ improvement ideas for global Product Development Process (PDP) for NPI programs
- Created PDP best-practice repository in Confluence to support NPI program deliverable quality
- Created Failure Mode and Effect Analysis mitigation action tracker in Jira to improve project efficiency and quality
- Co-led creation of revamped on-boarding process to decrease new hire lead time and standardize resource availability

PROCESS ENGINEER | ABBOTT POINT OF CARE **SEPT - DEC 2021**

- Designed and managed root-cause analysis experiments while also improving product performance and yield. Analyzed test data in JMP, wrote reports and presented findings to team. Suggested next courses for RCA action.
- Led historical data consolidation project to cross-reference past data analysis and theories to identify root cause.
- Identified Critical to Quality Attribute as early performance indicator to be implemented against root cause.

ENGINEERING TECHNICIAN | OCI VACUUM MICROENGINEERING **JAN - APRIL 2021**

- Designed, modelled, and animated solar panel window shutters in KeyCreator. Fabricated, assembled, and tested functional prototypes. Presented project updates to investors from Global Affairs Canada's Green Team (ECO-GAC)
- Co-wrote battery material testing system proposal for Gov. of Canada Open Call for Innovative Prototypes, achieving approval for prequalification stage. Delivered 5-minute pitch presentation for prospective government partners

RESARCH TECHNICIAN | OCI VACUUM MICROENGINEERING **JULY - AUG 2020**

- Performed experiments and analyzed data for 2020 Virtual NASA Aerospace Battery Workshop presentation - "A New Method for Evaluating Li-Ion Battery Anode Materials"
- Co-authored Phase 0 Science Instrument Plasma Analyzer proposal for Canadian Space Agency Lunar Exploration Accelerator program, achieving 75 grade points out of 100

Education

CHEMICAL ENGINEERING | UNIVERSITY OF WATERLOO **SEPT 2019 - JUNE 2024**

- Achieved 90.4% cumulative average through first five terms. Achieved Dean's List honors in 1A, 2A, and 2B terms
- Top 5 placement in Junior Design Waterloo Engineering Competition Fall 2020

ENERGY MODELLING LEAD | WARRIOR HOME DESIGN TEAM **SEPT 2020 - APRIL 2021**

- Developed net-zero energy models using optimization strategies in BEopt and eQUEST for multifamily housing unit to be constructed in Ottawa and in competition for the U.S. Department of Energy 2021 Solar Decathlon Design Challenge
- Co-presented project summaries during Solar Decathlon presentation weekend to showcase building features and design