Rahul Ram Chandrasekaran

Master of Applied Science (Mechanical) - University of Waterloo

✉ rahulram.chandrasekaran@gmail.com

📱 647-823-5111

📍 421 Partington Ave, Windsor, Canada

🔗 linkedin.com/in/rahulram-chandrasekaran

WORK EXPERIENCE

Welding Engineer
Centerline Windsor Ltd

09/2020 - Present   *Windsor, Canada*

Achievements/Tasks

- Extensive experience in Resistance Spot/ Resistance projection / Gas Metal Arc welding equipment set-up, integration, and validation for automotive BIW welding
- Research and development investigation to test and execute new welding processes
- Development and modification of new & current welding techniques, procedure towards selection and application of welding equipment for unique steel and aluminum types, including significant experience with Gen. 3 (AHSS) steels
- Develop scope and design of experiment for weld projects that are presented to the lab, and present results to customers and propose alternative solutions if necessary
- Extensive experience in robot automation (Fanuc, KUKA, ABB & Motoman), PLC programming (RS Logix 5000, SIMATIC)
- Use knowledge of our products to assist in configuration of equipment orders in liaison with Account Managers to provide the customer the proper equipment, CAD, and technical specifications to ensure their application runs smoothly
- Provide onsite support for installations and troubleshooting of welding systems

Weld Technical Support
PWO Canada Inc

01/2020 - 03/2020   *Kitchener, Canada*

Achievements/Tasks

- Optimized welding parameter and updated WPS for GMAW and Friction welding systems in liaison with maintenance and quality teams for Ford Cross car beam and Mercedes-Benz strut production platforms
- Performed periodic assessment of welding performance to Ford PPAP requirements, and generation of reports for collected data (cut &etch) to facilitate examination and conformance with weld quality specifications

Research Assistant
University of Waterloo

01/2017 - 01/2019   *Waterloo, Canada*

Achievements/Tasks

- Development of weld database identifying how weld bead geometry, quality and characteristics are influenced by GMAW parameters, minimizing the time required for developing weld procedure. Project funded by Canadian Welding Bureau (CWB)
- Programmed FANUC R30ic to perform welds in an automated environment; and used design of experiments (DoE) technique to conduct a range of experiments for different welding electrode, electrode diameter, material type, gas composition on 1G, 2F positions on pre-qualified joints as per CSA W59

Teaching Assistant
University of Waterloo

09/2017 - 12/2018   *Waterloo, Canada*

Achievements/Tasks

- Conducted metallography, corrosion, hardenability lab sessions and tutorials on topic – Corrosion, diffusion, Age hardening, TTT, CCT, Phase diagrams for ME230 undergraduate course over 4 terms
- Mentored and supervised students with corrosion and material selection project; and graded assignments, project reports and exams

SKILLS

BIW Welding | Metallurgy | Research | Process Development | Product Development | Project Management | PLC programming | Automated Equipment Integration | Solidworks | Inventor | Statistics | Quality Control | Continuous Improvement

CERTIFICATES

Programming PLCs (08/2022)
Conestoga College

Frontline Leadership (02/2022)
Unique Training & Development Inc.

Fanuc SpotTool Operation and Programming (05/2021)
International Association for Continuing Education & Training (IACET)

Lean Six Sigma White Belt Certification (04/2021)
Aveta Business Institute

Programming 1 (02/2021)
KUKA

CSA W59 Workshop for Supervisor and Inspectors (05/2020)
Canadian Welding Bureau

Basic Weld Inspection Methods (05/2020)
Canadian Welding Bureau

ORGANIZATIONS

American Welding Society

Resistance Welding Manufacturers Association

Professional Engineers Ontario

LANGUAGES

English
Full Professional Proficiency