

PETAR DIMOV

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Profile

- Red Seal Certificate – Millwright
- Experienced in technical field – maintenance & maintenance management, planning, fabrication, design, measurements, testing, quality control
- Strong by-example leadership and fine interpersonal skills
- Strong diagnostic and problem solving skills combined with fine mechanical aptitude with attention to detail
- Open to learning self-starter striving to make the things right

Recent Professional Experience

Mechanical R&D Technician

MGX Renewables Inc. (former ZincNyx Energy Solutions Inc.), Vancouver, BC

2018 – Present

5015 - 2016

- Participate in design, prototype building and testing of electrical energy storage system (Zn particles in 14 pH electrolyte) and fluidizer device for feeding Zn-air flow fuel cells;
- Provided design input, analysis of failure modes, building and testing prototype of 20% more efficient Zn regeneration unit with horizontally stacked electro-chemical cells
- Select and procure off-the-shelf components, evaluate quotations for outsourced fabrication of parts, issuing of purchase orders and requisitions
- Develop test plans, operating procedures, conduct tests, performance and reliability analysis and reports, troubleshooting
- Sharing hands-on experience in machining and fabrication with other technicians and young mechanical engineers
- Member of Occupational Health and Safety Committee

QC and Validation Technician

AESUS Packaging Systems Inc., Montreal, QC

2017

- Conducted validation, factory acceptance tests (FAT), performance presentations to clients and commissioning of shrink sleeve labeling machines paired with hybrid heat tunnels, capping automata and liquid filler configurations of up to 280 litres/ minute.
- Operated and troubleshot equipment, experimented and compiled set-up sheets of mechanical adjustments/ alignments and PLC parameters for equipment's best performance and meeting/ exceeding customer requirements.
- Electro-mechanical assembly from blueprints and drawings - sleeve labelers, heat tunnels, conveyors and other industrial equipment; alignment and fitting of parts, millwright's work, machining (lathe, mill) and fabrication/ modification of parts

Maintenance Technician / Millwright

AG Hair Cosmetics, Burnaby, BC

2004 – 2007: employee; 2010 – 2015: contractor

2004 – 2015

- Troubleshot, repaired and maintained:
 - o PLC controlled multi-nozzle liquid automatic filling machines, belt conveyors, bottle capping automata, turntables, box sealers,

- o VFD controlled mixers, compressed air mixers, up to 6 ton mixing tanks,
- o Gas-fired water boiler and steam boiler, air compressors, fans, blowers, area heaters and miscellaneous equipment ensuring plant's top technical performance
- Repaired and maintained power and control electric circuits, pneumatic and hydraulic systems, control valves, actuators; switches and sensors; diaphragm, piston, gear, lobe and centrifugal pumps; mechanical seals, clutches, gear boxes and other mechanical power transmissions.
- Inspected, installed and commissioned new equipment
- Designed, outsourced fabrication or fabricated: Tank temperature monitoring system, sump level pump control, 7.5HP shear mixer mount structure bolted to 1000L processing tank. Made six complete piping systems for two new production lines
- Planned and coordinated building of 1200 sq. ft. storage mezzanine.
- Executed modification/ expansion projects of product transfer, water, steam, oil, compressed air and sewer piping systems. Planned and did 3D piping design, relocation and rework of process water UV and 2- stage mechanical filtration system.
- Fixed and maintained taps and sinks, valves including backflow preventers, installed water heating tanks, unclogged cast iron and plastic sewer pipes. Retrofitted and installed 4 jacketed processing tanks with additional mixers in 9 weeks for ¼ of budget anticipated by management - nearly doubling the production capacity of the plant
- Procured parts, maintenance consumables and tools
- Scheduled annual preventative maintenance of all process equipment, managed machine documentation, drawings, P&IDs and manuals
- Analysed concurrent designs and wrote reports on feasibility of equipment alternatives for dispensing creamy, paste-like and phase changing products. Provided recommendations for proper utilization of existing heating, mixing, powder induction and packaging equipment
- Member – Safety & Security Committee and Technical Development Committee

Skills

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| <ul style="list-style-type: none"> • Millwright's skills • Use of measuring instruments, assembly, alignments and adjustments • Metalworking (sheet metal cutting, bending) & operating machine tools • Advanced User computer skills: 2D & 3D (AutoCAD, Mech. Desktop, SolidWorks), Excel, Word, PowerPoint • Very good mathematical skills | <ul style="list-style-type: none"> • Welding stainless & mild steel (SMAW, GMAW) and aluminum alloys (GMAW) • Plumbing and piping systems installation • Reading drawings, el. schematics, P&IDs • Excellent interpersonal and communication skills • Languages: English, Bulgarian, Russian • Safe driving and operating of equipment |
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Courses, Training, Education

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| <ul style="list-style-type: none"> • Red Seal Certificate - Millwright • Basic Offshore Safety Induction & Emergency Training • Boiler Operator • BC Institute of Technology: <ul style="list-style-type: none"> o Liquid Penetrant NDT – Level1 & 2 o Introduction to Finite Element Method o SolidWorks – all parts o Ultrasonic NDT – Level 1 | <ul style="list-style-type: none"> • Workplace Hazardous Materials Information System (WHMIS) • Confined Space Training • Technology of Metals • Arc Welder III degree • Technical University, Sofia - Mechanical Engineering • Millwright 4th degree • BCDL with air brakes endorsement |
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