
CHRISTOPHER MURRAY



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christopher-murray-1980

SUMMARY

- Vastly experienced engineer with strong analytical and problem solving skills.
- Strong background in mechanical; electrical; systems engineering; simulation; and algorithms.
- A highly motivated, self-starter with significant hands-on hardware and test experience.
- Provides significant contribution leading or as part of a team.

EXPERIENCE

PROJECT ENGINEER – CTS CORPORATION LTD

October 2017 – Present

- Successfully demonstrated that RF sensor technology can be used to measure ash loading in a diesel particulate filter (DPF).
- Produced accurate calibration for measuring soot loading of a DPF using S11 RF data.

LEAD SYSTEMS ENGINEER - CLYDE SPACE LTD

January 2015 – August 2017

- Achieved technical authority status on Assembly, Integration, Test and Verification (AITV) of subsystems and spacecraft.
 - Developed company processes on AITV for current and future spacecraft projects.
 - Successfully designed, implemented and verified system and subsystem integration and test procedures for spacecraft
 - Actively assembled, integrated, tested and verified multiple spacecraft launched and currently in-orbit.
 - Designed, developed and conducted shock and vibration testing, processes and procedures.
 - Individually developed spacecraft power generation and consumption algorithms and analysis for spacecraft attitude control software.
 - Successfully led multi-discipline design team to produce several new products for distinguished customers.
 - Represented the company to government and international space agencies.
 - Developed and managed concise technical specifications based on customer requirements.
 - Successfully managed customer relationships and expectations.
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SKILLS

- DATA ANALYSIS
- PROBLEM SOLVING
- ASSEMBLY, INTEGRATION, TEST & VERIFICATION
- STRONG WORK ETHIC
- SIMULATION
- CRITICAL THINKING
- RF ANALYSIS
- DECISION MAKING
- MECHANICAL ENGINEERING
- CONFLICT RESOLUTION
- SYSTEMS ENGINEERING
- ADAPTABILITY
- ALGORITHMS
- TEAMWORK
- HARDWARE ENGINEERING
- SELF MOTIVATED

SOFTWARE

- MATLAB
- SIMULINK
- MS OFFICE
- SOLIDWORKS
- SOLIDEDGE
- MATHEMATICA
- C#

DESIGN ENGINEER – PEAK SCIENTIFIC INSTRUMENTS LTD

August 2014 – December 2014

- Produced fully designed and tested next generation Zero-Air gas generator.
- Successfully led design team through new product development cycle.

UNIVERSITY TEACHER – UNIVERSITY OF GLASGOW

January 2012 – July 2014

- Developed and implemented practical mechatronics summer course project.
- Successfully developed, presented and examined degree teaching modules from entry to master's level.

EDUCATION

DOCTOR OF PHILOSOPHY – JULY 2011

University of Glasgow

- Thesis: Continuous Earth-Moon Payload Exchange using Symmetrically Laden Motorised Momentum Exchange Tethers with Associated Dynamics
- Lead Engineer and Project Manager on ESA REXUS Student Project
- External Mechanical Design and FEA Consultant

MASTER OF SCIENCE (with MERIT) – NOVEMBER 2005

University of Glasgow

- Space Mission Analysis and Design
- Thesis: Symmetrically Laden Motorised Momentum Exchange Tethers

BACHELOR OF SCIENCE – JULY 2001

Glasgow Caledonian University

- Instrumentation with Applied Physics
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