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# MALCOLM REYNOLDS, B.Sc., MECH. ENG., P.ENG.

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## SENIOR PROJECT MANAGER

Industrious and experienced Project Manager and Engineer with an outstanding record of leading multi-disciplinary engineering and technology teams.

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Experienced in the aerospace and marine industry directing sophisticated research, hi-tech product design and development. Strategic and conceptual thinker, exercises sound technical, analytical and engineering skills to deliver multi-million dollar projects on schedule and within budget. Recognized as a hands-on manager, team builder and motivator; possesses the drive and determination to build on recent excellent performances. Expertise in working with multi-disciplinary teams, sub-contractors, co-ordinating fieldwork, performing quantitative and qualitative analysis, writing clear and concise reports and presenting findings. Strong interpersonal, communication and negotiation skills, proactively keeps management, peers and customers focused on the process. Experience includes:

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| ▪ Building/leading mechanical & technical teams | ▪ Government & Private Sector negotiations |
| ▪ FAR & JAR, International Aviation Standards   | ▪ Knowledge of Mil and NASA Specifications |
| ▪ Chairing internal and customer design reviews | ▪ Government procurement                   |
| ▪ Advance knowledge of CATIA & Pro-E software   | ▪ ISO 9000, 9001, 9002                     |
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## PROFESSIONAL EXPERIENCE

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Elite Aerospace Corporation, Burlington, Ontario

2002 – present

### **INSTALLATION PROJECT ENGINEER**

Employed specifically to develop, manage and integrate the new OS-600 engine for the Beechcraft King Air C-90, Otter and Beaver. The OE-600 has increased power and fuel efficiency, provided extended range, shorter take off and increased cruise speed (40 knots) at a higher altitude in the pre-certification test on the Beechcraft.

- Act as a conduit between Elite Aerospace and 24 custom manufacturing sub-contractors based at geographically disparate locations across North America.
- Produce and present to various stakeholders the initial design concepts and lead extensive multi-million dollar negotiations for outsourcing contracts.
- Perform tests on airframes, nacelles and engines within strict corporate and statutory guidelines and regulations. Interact with the Federal Government of regulatory affairs.
- Visit the prime sub-contractors in Spokane, Washington and other sub-contractor locations every six weeks.
- Devise, present and monitor a monthly \$65,000 USD budget encompassing 4 staff, travel and operations.
- Administer the FAA and DOT joint certification program for aircraft, accessories, turbo chargers, fuel pumps and propellers.

Phoenix Electronics, Winnipeg, Manitoba

1998 – 2002

### **MANAGER, MECHANICAL ENGINEERING**

Employed to redesign and create an environmentally friendly Sonobouy for use by NATO forces.

- Oversaw the mechanical engineering, drafting and mechanical technology groups and a \$2.3 million budget.
- Reviewed, purchased and implemented the Pro-E 3D modelling system and conducted end-user training.
- Introduced Rapid Prototyping with Stereo Lithography to Phoenix Electronics.
- Managed human resource issues for the 12-person engineering team: scheduling, reviews, training and recruitment.
- Initiated a sweeping evaluation of all equipment, components and structure for current Sonobouys.

**Phoenix Electronics, MANAGER, MECHANICAL ENGINEERING.....continued**

- Developed and executed a strategy with specialist teams to remodel Sonobouy to Mil Spec.
- Conceived and built a prototype, performed launch, water impact, ballistic stability and integration tests.
- Led the presentation team to introduce the new Sonobouy to the U.S. Navy.

Supra Aerospace Limited, Mississauga, Ontario

1985 – 1998

**MANAGER, PROJECT ENGINEERING**

Selected to manage a prestigious project to design and manufacture the \$4.7 billion International Space Station arm; the larger more complex version of the “Canadarm”.

- Sourced, recruited and directed an experienced 12-person Project Engineering team.
- Initiated a demanding project schedule to meet strict deadlines, allocating the Project Engineers the responsibility for meeting and maintaining the schedules from CSA and NASA.
- Liaised monthly with Canadian sub-contractors and the Canadian Space Agency.
- Conducted extensive research and development with NASA and its sub-contractors.
- Negotiated four diverse multi-million dollar sub-contracts including costs and schedules to meet the CSA’s and NASA’s mandated timelines.
- Ensures all contractors met or exceeded ISO specification, conducting analysis and reviews of work and liaising with Supra Quality Control Department over problems.

British Aerospace PLC, Stevenage, United Kingdom

1980 – 1985

*Held the following two progressively responsible positions:***GROUP LEADER, NEW PROJECTS**

1983 – 1985

Tasked with managing the conceptual design and demonstrating the proof of concept for a new anti-tank weapon for use by the British Army.

- Supervised six Engineers, scrutinizing their work with accountability for airframe and structure, integration of warhead, guidance system and propulsion.
- Designed a cost effective airframe to withstand a 100,000G launch.
- Devised a unique one piece back extruded structure to meet strength and manufacturing requirements for production of 10,000 units annually.
- Selected for training in concurrent engineering and CATIA, trained the Mechanical Group of CATIA.

**MECHANICAL ENGINEER**

1980 – 1983

- Played a key support role during the design and prototyping phases for the anti-tank weapon.

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**EDUCATION**

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Professional Engineers of Ontario, Toronto, Ontario

1986

**PROFESSIONAL ENGINEER**

McGill University, Montreal, Quebec

1980

**MASTER OF ENGINEERING – Mechanical Engineering**

University of Central England, Birmingham, United Kingdom

1977

**BACHELOR OF SCIENCE – Mechanical Engineering**

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**PRESENTATIONS**

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International Association of Aerospace Engineers, Denver, Colorado

1994

Keynote at the Annual Convention: **“Leading the team tasked with designing and building the International Space Station Arm”.**