

JACCO VAN BEEK, P. ENG

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(home phone & address removed for
web posted resume. Please use email)

SUMMARY

Almost 7 years of experience as a mechanical design engineer. Used Pro/Engineer and SolidWorks for design, and Pro/Mechanica and COSMOSWorks for FEA. Enthusiastic and skilled at computer graphics and animation. A hands-on worker, with basic machining experience and a "can do" attitude. An easy going team player with excellent written and verbal communication skills.

PROFESSIONAL EXPERIENCE

Allen-Vanguard, Electronic Systems Group, Ottawa, ON

2007-2008

Mechanical Designer

Member of a mechanical team working on Chameleon programs designing electronics products for military and law enforcement applications. Used Pro/Engineer to design enclosures and custom heat sinks. Worked with other engineers and designers from various disciplines to produce assemblies for testing and demonstration. Machined simple heat sinks for circuit card assembly R&D.

Key Accomplishments:

- ◆ Designed and coordinated prototype production of critical sub-system assembly
- ◆ Acted as the primary interface with a key manufacturer
- ◆ Produced graphics and animations for marketing and funding applications
- ◆ Created and documented new design practices
- ◆ Recognized for outstanding performance on 3 occasions

MDA Space Missions, David Florida Laboratory, Ottawa, ON

2002-2007

Member of Technical Staff

Member of RADARSAT-2 spacecraft assembly, integration and test program. Responsible for design of custom test fixtures, and handling and support equipment for use with space flight hardware. Worked with engineers and technicians to design and build equipment, and perform flight qualification testing. Performed design tasks ranging from concept research and calculations, through creation of CAD models and manufacturing and assembly drawings using SolidWorks.

Key Accomplishments:

- ◆ Successfully coordinated major transport operation between test facilities
- ◆ Designed payload handling frame from concept through application
- ◆ Designed and managed production of spacecraft thermal test equipment
- ◆ Implemented new design and business practices
- ◆ Elected representative for employee's association

Virtual Ventures, Ottawa, ON
Instructor & Coordinator

1998-2000

Instructed elementary and high school aged youth at an award winning, student directed and operated, technology and computer camp. Involved with program administration and scheduling.

Key Accomplishments:

- ◆ Designed and implemented curriculum
- ◆ Supervised and trained staff and volunteers
- ◆ Implemented new business practices
- ◆ Involved with human resources and advertising activities

EDUCATION

Bachelor of Engineering, Mechanical, Carleton University, 1997 - 2001

- ◆ Concentration in Computer Integrated Manufacturing
- ◆ 4th year Project focus in: Structural Design of Load-Haul-Dump Mining Vehicle
- ◆ Courses in: CAD/CAM (Pro/Engineer), Finite Element Analysis (Pro/Mechanica)
Ground Vehicle Theory, Organizational Behaviour

PROFESSIONAL DEVELOPMENT

Basic operation of manual 3 axis milling machine, and Acu-Rite MILLPWR DRO programming
Crane Training Canada certified Crane operator
"SolidWorks Basics" Training Course from Javelin Technologies
Pro/Engineer Basic Training Course from CA Elliot Inc.
Geometric Dimensioning and Tolerancing workshops
Company workshops in: ESD awareness, Mechanical drawings
Non-Violent Crisis Intervention and Prevention from Crisis Prevention Institute

VOLUNTEER EXPERIENCE

Instructor for Lisgar Collegiate Institute computer graphics club (2002, 2003, 2004)
SHAD Valley Guest Instructor, 3D graphics & animation (2001, 2002, 2003)
Coach for Ridgemont & Lisgar high school robotics clubs (2000, 2001)
SHAD Valley Guest Instructor, Pro/Engineer (2000)

MEMBERSHIPS

Licensed member of PEO