

# Nathan Jones, P.Eng

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Strategic engineer with over 10 years' experience developing sustainable manufacturing and test processes that ensure high quality products; plan and direct test process development from concept through implementation, providing technical leadership and insight. Strong communicator; able to build and maintain solid work relationships and act as a positive company representative.

## MANAGER TEST ENGINEERING

- PLC & Motion Control Systems
- Panel Construction
- Scheduling & Logistics
- Process Optimization
- Quality Assurance
- Budget Development
- Lean Manufacturing
- System Integration
- Problem Resolution
- Schematics

### SELECT ACHIEVEMENTS

- ▶ Planned and managed budgets for test related resources, valued to \$500K per project; scheduled activity extending up to one year out with excellent accuracy and time estimation.
- ▶ Initiated strategic test processes seven years ago that are still employed today; aided in the development of seven unique and high quality products, generating a combined \$65M in revenues.
- ▶ Established and fostered strong relationships with diverse hardware and software designers and external suppliers; increased test process performance and reduced development time by up to 49%.
- ▶ Directed hiring of 11 test engineers with combined 50 years' experience; provided team guidance and leadership while establishing very first manufacturing test processes, guidelines, and policies.

### CAREER EVOLUTION

VISUAL TECH CORPORATION – Edmonton, AB 2005 – Present

**Team Lead; Test Development** 2011 – Present

**Functional Test Engineer; New Product Introduction** 2005 – 2011

Progressed from premier test engineer of manufacturing test processes to building and directing a team of 11, transitioning new products from prototype to mass production. Currently coordinate activities of 7 high profile projects; prioritize development activities such as manufacturing and test fixtures for critical processes, make outsourcing decisions, and identify staff and resource issues. Sustain and enhance test processes to achieve cost savings through cycle time reduction and optimized test coverage.

#### Project Direction:

- Managed test processes in rapidly growing organization; developed test stations including measurement and control electronics, fixture mechanicals and software for simultaneous projects.
- Spearheaded manufacturing test process development for more than eight new products; successfully transferred new products to market through volume manufacturing facilities located around the world.
- Authored or approved all company ISO and business system documentation related to test engineering processes, roles, and responsibilities; established development guidelines and validation exercises, including Six Sigma methods for Gauge Reliability and Repeatability measurement.

*"Nathan's technical guidance and mentoring across the team has been very effective and has been at a level that exceeds expectations." -- Manager, New Product Introduction*

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## ■ CAREER EVOLUTION continued

EXCEL RESOURCES – Edmonton, AB

2002 – 2005

### **New Products Test Engineer**

Facilitated introduction of newest CDMA and UMTS base station technologies; developed functional test procedures that incorporated several unique to industry circuit test techniques. Documented test strategies and requirements, and provided recommendations for improvement and on-going reliability. Supported transfer of several test stations to production floor; acted as primary technical contact for manufacturing issues. Liaised with several tier 1 circuit board and contract manufacturers; ensured adequate test coverage at earliest stages of production.

#### **Test Engineering Success:**

- Recognized expert in Boundary-scan test techniques and applications through intensive self-study; demonstrated basic capabilities to large technical audiences within the first three weeks of employment.
- Enhanced existing LabView test applications by debugging intermittent issues and optimizing test coverage and product throughput; reduced product cycle time by 19%.
- Selected specialized vendors for cost-effective development of test fixtures and software; established strong networks of suppliers and reduced overall expenses by 34%.

COMPUTE FOCUS – Edmonton, AB

2000 – 2002

### **Test Engineer**

Developed qualification test plans and procedures for the ISA Communication System, a multi-billion dollar contract to upgrade client's communication system. Interacted with officials from client company to gain approval for test plans while providing expertise on all aspects of test activities.

#### **Generated Outcomes:**

- Organized required resources including personnel, vehicles, and equipment for setup and tear down test cases; qualified specialized deployments of the Digital System on schedule.
- Successfully transferred requirements records from Oracle database to MS Access; reduced report generation times by 25% and simplified requirements interpretation.

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## ■ COMPUTING SKILLS

National Instruments LabView ▪ MS Visual Studio C++ ▪ SolidWorks ▪ AutoCAD ▪ Altium Designer ▪ SubVersion  
JTAG Technologies ProVision ▪ MS Project ▪ MS Access ▪ Oracle

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## ■ EDUCATION | TRAINING

**Bachelor of Science; Electrical Engineering** – University of Alberta, 2000

*Professional Development Courses:*

SolidWorks 2010 ▪ Project Management ▪ Risk Management ▪ Finance for Non-Financial Managers ▪ Developing Your Management Style ▪ Professional Communications

**Member, APEGA**