

Ted Potma

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EDUCATION ◇ **Queen's University** Kingston, ON.
M.Sc. in Computer Science, April 2007.
Thesis title: *Explorations of the Motion and Geometry of the Human Knee*.

◇ **University of Toronto** Toronto ON.
B.Sc. in Computer Science, April 2004.
Awarded with High Distinction.

RESEARCH ◇ Masters Thesis: Explorations of the Motion and Geometry of the Human Knee.
PROJECTS Supervisor: James Stewart.

- Developed a statistical model of knee motion using MRI data combined with motion keyframing and principal component analysis.
- Developed a statistical shape model of the bones of the knee and combined this with the motion model to determine how bone shape affects knee motion.

SKILLS ◇ **C#**: Object-oriented design principles, multi-threaded/asynchronous operations, design patterns, LINQ, code generation, n-tier applications
◇ Visual Studio 2008/2010, Team Foundation Server, Subversion
◇ Database (SQL Server 2005/2008): Creating and maintaining tables, views, indexes, stored procedures, functions, bulk copy operations
◇ Reporting: SQL Server 2005/2008 reporting services, statements, invoices, sales and inventory tracking
◇ Web development: ASP.NET, AJAX, 3rd-party controls, JavaScript, HTML, CSS, XML, XSLT
◇ Finance: Completed the Canadian Securities Course

SELECTED ◇ **Software Developer**, Clarity Systems, Sheppard Avenue East Suite 800 Toronto, ON
WORK (April 2009-Present)

EXPERIENCE · Project lead for a multi-million dollar application used to file regulatory reports to FERC (Federal Energy Regulatory Commission) on behalf of US based energy companies.
– Oversaw all aspects of the development: Design, implementation, maintenance, assigning work items to other developers, work item/bug tracking and liaising with and supporting clients to expand the product and deal with issues.

- Desktop based n-tier architecture, using T4 generated data classes and WCF based services. Clear separation between UI, data model, business logic, application control, service and persistence layers.
- Extensive use of LINQ, generics and reflection.
- Many smaller projects to support other Clarity products
 - XBRL (eXtensible Business Reporting Language) object model
 - Interactive tool for validating Microsoft Office documents against style rules for submission to the London Stock Exchange
 - Performance tuning and memory management
- ◇ **Software Developer**, PureFacts Inc., 372 Bay Street, Toronto, ON
(March 2008 - March 2009)
 - Maintained and extended application base classes and custom code generator (C# / VB.NET)
 - Use of XML to represent object hierarchy and database structure. Parsed XML documents to generate table scripts, stored procedures, classes, and simple web pages
 - Maintained and extended CRM/Fee Calculation/Portfolio Modeling software for use by wealth management firms and banking institutions
 - Multi-layered approach to web development, data caching to improve performance (database, application, session)
 - Leveraged legacy code by using database views, data cache and transform, mocked-up classes
 - Created database creation and migration tool
 - Migrated data from several different data structures. Use of dictionaries, hashing, data readers and application tuning to reduce memory footprint and improve performance.
 - Administered Team Foundation Server for work item/version tracking and access to/ability to change different codebases
- ◇ **IT Specialist**, Can-Rad Beauty Limited (Contract/Part-Time), 125 Norfinch Drive, Toronto, ON
(September 2007 - Present)
 - Created web-based reporting system. Management tools to assist inventory, sales tracking, and purchasing decisions. External components for salespeople working around Canada to assist sales and CRM.
 - SQL Server 2008 Reporting Services, ASP.NET membership and role management
 - Linked servers with SSIS to facilitate ETL from legacy data store
 - Assisted in migration to a new ordering/warehousing/accounting system. Configured and deployed IT equipment, provided support and training to employees.

- INTERESTS
- ◇ Aviation: Holder of private pilot's license with float endorsement and night rating
 - ◇ Diving: Advanced Open Water diver with experience in Canada, Australia and The Caribbean
 - ◇ Vehicles: Restored sailboats, powerboats, built gasoline railcar, etc

REFERENCES Available on request.