

Madhava Enros

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Work Experience

Human Factors Specialist

2000-present

DB2 User-Centered Design, IBM Toronto Software Laboratory

Interaction and interface design for IBM's DB2 Universal Database. Responsibilities including the following:

- Analysis of user domains and tasks through task analysis and contextual inquiry
- Design of interaction models and user interfaces for database administration tools (high-level designs and prototypes)
- Development of usage scenarios for design and usability testing purposes
- Design and implementation of user-feedback sessions, from participant recruiting to statistical analysis of results
- Ownership and evangelism of the IBM Data Management UI Consistency Guidelines
- Review and refereeing of Human-Computer Interaction papers for CASCON (IBM Center for Advanced Study Conference)
- Creation of User-Centered Design outreach/education materials for IBM and partners
- Presentations to university HCI and systems-design classes (University of Toronto and Ryerson University) and at conferences

Research and Development Student

1999 (Apr-Aug)

Spar Aerospace – Space Systems Division

Human Factors engineering – task analysis and human-machine interface design – for the Special Purpose Dexterous Manipulator (SPDM), a dual-armed robot that is the “hand” of the International Space Station Mobile Servicing System (Canadarm2).

Software Developer

1998 (May-Sept)

Grey Interactive

Software development (back-end programming for database-oriented intranet tools), interface design and usability testing, Perl programming/CGI scripting, ORACLE, Informix, and MySQL database design and programming of software to interface these databases with web-servers (for intranets and the internet), HTML scripting, interface design

Developer

1995-1997

Ingenia Communications Corporation

Perl programming/CGI scripting, ORACLE, Informix, and mSQL database design and programming of software to interface these databases with web-servers (for intranets and the internet), HTML scripting, Interface Design

Co-op Student

1994-1995

Lockheed Canada – Electronic Counter-Measures Development Division

Designed and implemented a program to graphically represent tabular data concerning the behaviour of radar guided missiles upon activation of Lockheed radar jamming systems

Education

M.Eng. Human Factors Engineering, in progress part-time expected 2007
University of Toronto

B.A.Sc. Industrial Engineering, Human Factors/Ergonomics 2000
University of Toronto

- Fourth year thesis, “Differences between the eye-fixation patterns of novice and expert operators of the DURESS II Physical Interface.” Supervisor - Professor Kim Vicente. Thesis released as Cognitive Engineering Laboratory technical paper CEL00-01 (2000).
- Nominated for Centennial Thesis Award (Dept. of Mechanical and Industrial Engineering)
- Dean’s Honour List in during 1999-2000
- Certificate in Complementary Studies (social and cultural impacts of technology) from the U of T Center for Technology and Social Development
- Recipient of the 2000 Gordon Cressy Student Leadership Award, “In appreciation of outstanding voluntary service, while a student, to the University of Toronto.” (University of Toronto Alumni Association)

Professional Development courses 2000-2003

- DB2 Database Administration (IBM Learning Services)
- Linux System Administration (Red Hat)
- Negotiation (IBM Learning Services)
- Interface Design (Jef Raskin)
- User-Centered Design Methodology (IBM Learning Services)

Software Familiarity

Prototyping: Visio, Photoshop, QuarkXPress, HTML with CSS
Statistics: SPSS, Excel
Database: DB2, SQL Server, MySQL
Languages: Perl, C

Professional Affiliations

- Associate Member of the Human Factors and Ergonomics Society (HFES)
- Member of the Toronto Region Computer-Human Interaction interest group (ToRCHI)

Other Interests and Affiliations

- Member of the Hart House Chorus since 1995. Current chair of the Executive Committee; past Chair of the Intervarsity Choral Festival organizing committee (involving six Ontario university choirs)
- Rock climbing; distance running; Ultimate Frisbee
- Urban planning and policy