

Alborz Amir-Khalili

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CAREER INTERESTS

Computational neuroscience
Biomedical imaging, digital image processing, and remote sensing
Expert systems and artificial intelligence
Automation infrastructure design

EDUCATION

Bachelor of Applied Science, Systems Design Engineering
University of Waterloo, graduating class of 2010
Honours Degree with Distinction, Co-op
Awards: University of Waterloo President's Scholarship

SKILLS SUMMARY

Languages & Software: Solid Works, CATIA, Maple, MATLAB, MS Office, Adobe CS3 Suite, Java, C++, JavaScript, PHP, Python, Bash, Verilog, LabView, and AutoCAD
Operating Systems: Linux, MSDOS, OSX, Windows
Engineering Skills: Algorithm analysis; applied artificial intelligence; control systems; digital signal processing; digital image processing; remote sensing systems; user interface design; circuit design, instrumentation and measurement

EXPERIENCE

Design Intern Spring 2009
Atlantic Industries Ltd., Ayr, ON

- Conducted Finite Element Analysis on buried culvert structures
- Researched new modelling techniques using strain measurements obtained from previously built structures and theoretical FEA soil models
- Drafted reports on the research findings with the help of the Civil Engineering Department of Dalhousie University

Hardware Qualification Engineer Fall 2008
AMD Inc, Markham, ON

- Participated in launching flagship mobile product
- Automated key aspects of qualification processes
- Managed high-priority projects with tight deadlines

Senior Web Developer Winter 2008
MidWest Equipment, Surrey, BC

- Designed and developed Online Catalog: www.midwestequipment.ca
- Diagnosing faulty heavy equipment computers using Dr.ZX software
- Developed and debugged Garnet OS applications

Web Design Specialist Fall 2006 and Spring 2007
BMO InvestorLine, Toronto, ON

- Designed website mockups using Flash, HTML, Javascript, and Photoshop
- Debugged faulty Access Database
- Edited movies using iMovie, Flash, and Image Ready

Teacher's Assistant Winter 2006
ENSAM de Metz, Metz, FR

- Participated in Challenge SIA project
- Drafted automotive parts using CATIA
- Designed a website for the AM Metz Racing team: www.metz.ensam.fr/sia