

# ELDON G. MARKS

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## OBJECTIVE

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To work within a research-driven development environment.

## TECHNICAL COMPETENCIES / SKILLS

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- Highly creative developer and active researcher engaged in independent and collaborative research for over five years. Key areas of interest are **human-computer interaction** and **artificial intelligence**.
- Experienced designer of intuitive user interfaces, specialist in web-based system development and graphic design.

**Programming:** C, C#, C++ .NET, Java, Python, Perl, Assembly (X86, MIPS)

**Web Programming / Design:** JEE, PHP, JavaScript, HTML, CSS, XHTML, XML, AJAX, GWT

**Database Development:** MySQL, DB2, ER Diagramming, SQL

**Applications:** LaTeX, MS Office, Adobe Creative Suite

**Analysis/Design:** Object Oriented Analysis & Design (OOAD), Use-Cases, CRC Cards, UML

**Operating Systems:** Windows 2000 server, Windows 2003 Server, Ubuntu, Redhat, Suse, Mandrake, Solaris, Fedora.

## EDUCATION

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### August 2008 – present

M.Sc. Computer Science, Howard University,  
Washington D.C.

**GPA**  
(*current*): 4.0/4.0

### July 2004

Bachelor of Science in Computer Science,  
University of Guyana, Georgetown, Guyana

**GPA**  
Major: 3.6/4.0

### Awards

**2009.** Graduate Teaching Assistantship, Department of Systems & Computer Science, Howard University.

**2008.** Tuition Award, Howard University Graduate School.

## PROFESSIONAL EXPERIENCE

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2006 - present **University of Guyana, Department of Computer Science**

### Lecturer I

Revise, prepare and deliver lectures to students; plan and deliver lab and tutorial sessions. Compose and grade course assignments, semester projects and exams for respective courses. Hold office hours and provide additional guidance to students outside of class. Supervise undergraduate student research.

2004 – 2006 **University of Guyana, Department of Computer Science**

### Assistant Lecturer

Understudied and assisted primary Lecturers in lab sessions and lectures. Assisted in grading and design of course assignments, projects and exams; supervised exams and provided additional assistance to students outside of class. Worked along with students in their final year research projects.

2000 - 2004 **Self-Employed**

### Computer Technician

Provided computer systems solutions and services to various establishments and individual clients.

## Projects

- 2008. Developed the Appropriate Technology **website** (appropriatetech.net).
- 2008. Developed the Guyana Power & Light **web-based information system** (gplinc.com).
- 2008. Designed and Developed **PHP web-template** for Guyana Water Incorporated (gwiguyana.com).
- 2007. Designed and developed the Brandsville Apartments **website** (brandsville.net)
- 2007. Designed and developed the Ministry of Culture, Youth & Sport **website**
- 2007. Developed **web-based newsletter templates** for the Guyana National Trust
- 2007. Developed a **web-based management system** for the Bed and Breakfast Secretariat of Guyana
- 2006. Developed the Banks DIH **web-based information system** (banksdih.com)
- 2006. Designed and developed the School of Earth & Environmental Sciences **website** (uog.edu.gy/schools/sees)
- 2006. Designed and developed the University of Guyana **website** (uog.edu.gy)
- 2005. Designed and developed a tailored **Intranet Monitoring Utility** (IntraMon) for the Computer Science Lab.

- 2005.** Implemented a **web-casting server** as part of the "Radio & Multimedia Production Programme for Community Media" - Centre for Communication Studies, Faculty of Social Sciences, University of Guyana
- 2005.** Designed and developed the University of Guyana – Centre for Communication Studies (UGCCS) **website**
- 2005.** Designed and developed the Strategic Environmental Assessment of Mining – Guyana **website**
- 2005.** Designed and developed the Guyana Football Federation (GFF) **website**.
- 2004.** Developed a **web-based file system explorer** (Xplorer) for the Department of Computer Science.
- 2004.** Developed and implemented a **Course Directory Service** for the Department of Computer Science
- 2004.** Designed and developed the Department of Computer Science **website**.
- 2004.** Designed and developed the UNEP-GEF Biosafety Guyana **website**.
- 2004.** Developed the 7th Caribbean and International Social Work Educators Conference **website**

#### **Activities**

- 2008. Served as Summer Program Coordinator** – Faculty of Natural Sciences, University of Guyana.
- 2008. Delivered a Guest Lecture on ICT & The Environment** – School of Earth & Environmental Science, University of Guyana.
- 2008. Served as member of the IT Steering Committee & Technical Team**, University of Guyana.
- 2006. Served as Projects Coordinator**, Department of Computer Science, Faculty of Natural Sciences, University of Guyana.
- 2006. Delivered a Guest Lecture on web-streaming** - Centre for Communication Studies, Faculty of Social Sciences, University of Guyana.
- 2005. Administered a workshop on Web-casting** as part of the "Radio & Multimedia Production Programme for Community Media" - Centre for Communication Studies, Faculty of Social Sciences, University of Guyana.
- 2004. Presenter at 14th Biennial General Meeting** – Caribbean Academy of Sciences (CAS); presented publication entitled: "Gestures Speak Louder than Emoticons: A Practical Implementation of Non-Verbal Communication Improvements on Text-Chat", Trinidad & Tobago.

- Marks, E., (2008). The Infojector: Maximizing Textual Information Assimilation Using an Improved Information Interface (In Submission to Caribbean Academy of Sciences (CAS) 2008), Grenada.
- Barakat, F., Marks, E. (2008). Computer Supported Cognitive Enhancement: The Formulation of an Intelligence Augmentation Cognitive Model Based on the Cognitively Beneficial Effects of Programming.
- De Freitas, P. Marks, E. (2008). An Exploration of Methods for Effectively Conveying Math Concepts to Right-Brained Individuals.
- Morris, A., Marks, E. (2008). MIA: A Digitally Emulated Consciousness Based on the Abstraction of Human Logic in Conversation.
- Peters, T., Marks, E. (2007). People HR: An Investigation In Utilizing Groupware to Support High Involvement Human Resource Management for a Highly Productive Workforce.
- Calixte, N., Marks, E. (2007). The Vote Aggregation and Reporting System: A Cost-effective, Electronic, and Fraud Proof Voting System for National Elections.
- Singh, K., Marks, E. (2007). Exploiting the SMS Text Messaging Medium in Guyana: An exploration in linguistic compression to overcome the constraints of SMS.
- Fileen, K., Marks, E. (2007). Job-Opp: A Cost-effective, Web-based Job Search Application with Integrated Web Conferencing for the Caribbean Region.
- Ojha, T., Marks, E. (2007). Digital Georgetown: A Multi-functional, Web-based GIS System for the City of Georgetown, Guyana.
- Braithwaite, R., Marks, E. (2006). Digital Palmistry: An Exploration of Computer Vision to Visually Analyse Palm Prints.
- Dos Santos, S., Marks, E. (2006). Edu-Tracker: A Performance Tracking & Report Generating Application for Educational Institutions.
- Ramotar, M., Marks, E. (2006). Voice Chat in Sign Language: The Development of a Voice Chat that Allows the Hearing Impaired to Communicate Effectively Through "Signing" (In Submission to World Science Day Symposium 2006), Guyana.
- Persaud, L., Parmanand, A, Marks, E. (2006). NOBRAC LA Afis: An Investigation into the Use of Biometrics, AI, & Computer Vision to Ensure Security & Authenticity of Identifying an Individual (In Submission to World Science Day Symposium 2006), Guyana.
- Dubaria, G., Marks, E. (2006). Introducing Ecommerce In Guyana: A Deployable, Secure & Cost Effective Framework.
- Azeez, A., Koobare, V., Marks, E. (2006). Smarty Pants: An Interactive Learning Utility for Children.
- Israel, P., Marks, E. (2005). A Linear Ecological Simulation Application.
- Henry, C., Marks, E. (2005). WordSync: A Collaborative Word Processing. Application.
- Deonauth, N., Layne, N., Marks, E. (2005). SmartFrog: An Interactive Learning Utility (In Submission to World Science Day Symposium 2006), Guyana.
- Sookraj, G., Marks, E. (2005). An Intelligent Medical Data Archiving and Analysis System.
- Chan, C., Marks, E. (2005). A Remote, Web-based Controller (In Submission to World Science Day Symposium 2006), Guyana.
- Marks, E., Williams, M. (2004). Gestures Speak Louder than Emoticons: A Practical Implementation of Non-Verbal Communication Improvements on Text-Chat (In Submission to Caribbean Academy of Sciences (CAS) 2004), Trinidad & Tobago.