Sigurður (Siggi) Örn Aðalgeirsson

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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) — **Cambridge, MA**

2009-Present — **Candidate for Ph.D. in Media Arts & Sciences, Personal Robots Group** — ***GPA 5.0/5.0***

- Innovating a novel computational system for socially aware robotic task planning. Combining probabilistic inference with symbolic planning to reason about agents' hidden mental states and anticipate future actions

2007-2009 — **Master of Science in Media Arts and Sciences, Personal Robots Group** — ***GPA 5.0/5.0***

- Developed a socially embodied tele-presence robot, MeBot. Designed and fabricated mechanics, electronics and software components supporting real-time bi-directional audio/video streaming
- Designed and conducted a user study evaluation of system. Results showed that people felt more engaged, involved and entertained when communicating with robot over videoconferencing
- Relevant coursework: Cognitive robotics, Human-Robot Interaction, Computational Cog. Sci., "How to Make Almost Anything", Sensor Technologies for Responsive Environments

UNIVERSITY OF ICELAND (UI) — **Reykjavík, Iceland**

2004-2007 — **Bachelor of Science in Electrical and Computer Engineering** — ***GPA 9.42/10.00***

- Highest GPA in class of entire engineering department (EE, Mech., Civil, Industrial)
- Relevant coursework: Machine Learning, Statistical Analysis, Software Practices, Feedback Systems, Signals & Systems, Computer Architecture, Telecommunications

Skills

Languages:	English, Icelandic and some Danish
Programming:	Java, Python, Matlab, C++/C, OpenCV, C/Assembly (AVR, PIC, HC11)
Web:	PhP, HTML, JavaScript, MySQL, JSP, Tomcat
CAD/Fab.:	EagleCAD, Solidworks, Omax, lasercutting, waterjet cutting, CNC milling

Experience

2007-Present — **MIT Media Lab: Research assistant - Personal Robots Group** — **Cambridge, MA**

- Co-authored and manage a large code-base used for controlling complex humanoid robots (MDS robot named #17 in TIME magazine's 50 Best Inventions of 2008)
- Created a flexible and customizable motor control scheme, electronic designs and source code open-sourced and now 150+ boards fabricated and used in robotics labs at MIT, Yale and USC

2007 — **Glitnir Bank: Intern - Equity research** — **Reykjavík, Iceland**

- Created solutions that provided fast research data to traders from sources as Bloomberg and Reuters
- Asked to stay on payroll for consultation purposes through first semester of graduate school

2006 — **Marel: Intern - Computer Vision R&D** — **Hafnafjörður, Iceland**

- Prototyped a hyper-spectral vision system to detect imperfections in the color tone of food products

2005-2006 — **Sport Cool: Student technical innovation project** — **Reykjavík, Iceland**

- Developed an electrically controlled pain-relief cooling system for athletes
- Approached by global prosthetics company Össur for patent discussions

2004-2007 — **Night club management and bartending** — **Reykjavík, Iceland**

- Shift-manager of a staff of about 15 bartenders and security for a busy night club

Awards and Achievements

2010 — Best student paper nomination at HRI2010 (academic conference with a low ~20% acceptance rate)

2007 — "Þorvaldur Finnbogason" award for highest engineering GPA (personally awarded by ex-president, Frú Finnbogadóttir, the world's first democratically elected female head of state)

2006 — Received the Presidential Innovation Award from the Icelandic president (400 submissions)

Leadership

2009-Present — **President - MIT Kickboxing club:** Manage scheduling, recruitment, gear purchases and some coaching

2006-2007 — **President – IEEE Student Branch, Iceland:** Recruited lecturers, organized industry-related info sessions, provided grad-school application info sessions. Created and administered robot challenges

2006 — **President - UI Amateur Radio (HAM) club:** Scheduled workshops, outings and meetings

Activities

Kickboxing ♦ Cuban salsa dancing ♦ Bicycling ♦ East End House youth mentoring ♦ Volunteering at Paraclete Foundation