André Mark Allan Johnson, EIT

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HIGHLIGHTS

Industry Experience	Software Experience	Education
Private Contracting	AutoCAD & Solidworks	BEng & MASc in EE
Pulp and Paper Manufacturing	CST (EM Simulator)	EM / Microwave Theory
Project Management	Matlab, Octave, and R	Power Electronics
RF / Antenna R&D	VBA, Java, and C++	Digital Communication
Radio Astronomy	LaTeX	Antenna Theory
	Windows & Linux	

EDUCATION

M.A.Sc. in Electrical Engineering – University of British Columbia   **2013**

> **Supervisors:** Dr. Tom Landecker, Dr. Thomas Johnson, and Dr. Julian Cheng
> **Research Focus:** Waveguide Antenna Design for Radio Astronomy

B.Eng. in Electrical Engineering with Business Option – University of Victoria   **2008**

> **Specialization:** Power Electronics and Microwave Engineering

EXPERIENCE

Independent Contractor   **Nov. 2014 – June 2015, Sept. 2015 – Oct. 2015**
Dunlap Institute, University of Toronto

- Designed two antennas utilizing beam shaping metal sleeves for the CHIME project
- Assembled antennas and performed return loss, farfield, and noise measurements
- Worked with local staff to complete tasks given by an off-site supervisor

Independent Contractor   **Nov. 2012 – Feb. 2013, May 2014 – Aug. 12014**
Dominion Radio Astrophysical Observatory, National Research Council Canada

- Analyzed phase performance of a broadband antenna
- Consulted and provided support for the creation of an academic paper

Research Assistant   **October 2010 – September 2012**
Dominion Radio Astrophysical Observatory, National Research Council Canada

- Designed a novel broadband waveguide antenna using CST Microwave Studio
- Created an antenna prototype design using Solidworks
- Tested the prototype and analyzed the results

Engineering Co-op Student   **Sept. 2007 – Dec. 2007, May 2008 – Aug. 2008**
Eurocan Pulp and Paper Company

- Worked on various power distribution and motor control projects
- Created and modified CAD drawings, including loop drawings and motor starter schematics

Project Officer   **Sept. 2005 – Dec. 2005, May 2006 – Aug. 2006**
Public Works and Government Services Canada

- Created and modified CAD drawings using AutoCAD
- Planned and managed small repair projects

COMMUNITY LEADERSHIP

- Radio Group Leader – UBC Okanagan Mechatronics Club (September 2011 – September 2012)
- Vice-Chair / Treasurer / Webmaster – UBC Okanagan IEEE Student Branch (May 2010 – April 2012)
- Webmaster / IT Support – The 2011 Canadian Workshop on Information Theory (May 2011)
- Co-Chair – UVic Engineering Student Society: The Order of Pi Charity Event (February 2008)
- Director of Services – UVic Engineering Student Society (May 2005 – August 2006)