SECTOR: Industry

Marcel Lefrançois, Ph.D.



Ultra Maritime SystemsDartmouth, Nova Scotia

Head of Domain Specialism

discipline: Engineering Physics

current focus: Project Engineering Lead, CSC Integration

concurrent work: Sonar Systems and Sensors R&D

past job: Lead Systems Engineer Maritime Theatre Missile Defence Forum

Defence Scientist (Group Lead / Sonar R&D / Sonar and Combat Systems)

sectors worked: Industry, Government

technical orgs: IEEE

extracurricular: Scout Leader



SECTOR: Industry

Kathleen Svendsen, M.A.Sc, P.Eng



discipline: Electrical / Computer

current focus: Marine Engineering

past job: Software development

sectors worked: Marine, Space

Senior Engineer Lloyd's Register

extracurricular: Sewing, Dog walks, Home Renovation

SECTOR: Academia

Amir Aghdam, Ph.D., P.Eng., SMIEEE, FEIC



Concordia University
Montreal, Quebec

Professor

discipline: Electrical & Computer Eng.

current focus: Networked control systems

concurrent work: Consultant for DND

past job: Systems Engineer

sectors worked: Industry, Academia

technical orgs: (IEEE CSS, IEEE SysC, IEEE R7)

extracurricular: Playing Guitar

SECTOR: Academia

Mae L. Seto, Ph.D., P.Eng., SMIEEE, FEC



Dalhousie University Halifax, Nova Scotia

Associate Professor

discipline: Electrical / Mechanical

current focus: underwater communications

concurrent work: consultant for Dept. National Defence

past job: Defence Scientist

sectors worked: industry, gov't, academia

technical orgs: IEEE (CAS OES, RAS, Industry Act.)

extracurricular: Girl Guide Leader

SECTOR: Government

Stéphane Blouin, Ph.D, P.Eng., SMIEEE



Defence R&D CanadaDarmouth, Nova Scotia

Defence Scientist

discipline: Mechanical / Electrical / Chemical

current focus: Autonomous Underwater Networks

concurrent work: Sessional @ Dalhousie University

past jobs: Ind./gov. R&D (USA, Canada, France)

sectors worked: Manufacturing (Automotive, pharma.,

food, gas, petrochemical), Academia

technical orgs: IEEE, OIQ (Prof. Eng.)

extracurricular: cycling/swimming, gardening

SECTOR: Government

Brandy Armstrong, MS, PhD candidate



University of Southern Mississippi, School of Ocean Science and Engineering Stennis Space Center, MS

Research Scientist

discipline: marine science, physical oceanography

current focus: ocean modeling using the Coupled Ocean Atmosphere Wave Sediment Transport (COAWST) modeling system

concurrent work: Vice President of Professional Activities, Oceanic Engineering Society, Deputy Co-chair OCEANS 2023 Gulf Coast

past job: United States Geological Survey oceanographer and hydrologist

sectors worked: State and Federal Government, Academia

technical orgs: IEEE Oceanic Engineering Society, Coastal and Estuarine Research Federation, American Geophysical Union

extracurricular: Mother, beekeeping, gardening, crafting, reading

SECTOR: Entrepreneurship

Nehad El-Sherif, M.Sc., P.Eng., MBA, SMIEEE



discipline: Electrical

current focus: Electrical safety, product development

concurrent work: Sessional @ University of Saskatchewan

past job: Product management R&D

sectors worked: Manufacturing, Academia

technical orgs: IEEE (R7 Industry Relations, IAS), CSA

extracurricular: Interpretation, basketball, squash

MNKYBR Technologies Saskatoon, SK

Founder & President

SECTOR: Entrepreneurship

Niru Somayajula



discipline: GeoPhysics

current focus: Acoustics, Strategy, Finance, BusDev

concurrent work: Board member @ OSC, Elephant Thoughts,

Prasad Foundation, Collingwood Music Fest

past job: Operations Manager

sectors worked: Manufacturing

extracurricular: @ceowhocooks, triathlon, anything

outdoors, anything outdoors with my kids

Sector Mentors

Example questions – ask any you have in mind

INDUSTRY	ACADEMIA	GOVERNMENT	ENTREPRENEURSHIP (SME, consultants, contractors)
Kathleen Svendsen	Amir Aghdam	Stephane Blouin	Nehad El-Sherif
Research Engineer	Professor	Sr. Defence Scientist	President
(Lloyd's Register, NS)	(Concordia University, QC)	(DRDC Atlantic, NS)	(MNKYBR Technologies, SK)
Marcel Lefrancois	Mae Seto	Brandy Armstrong	Niru Somayajula
Head Domain Specialism	Associate Professor	Oceanographer/ Hydrologist	President & CEO
(Ultra Maritime Systems, NS)	(Dalhousie University, NS)	(U.S. Geological Survey, USA)	(Sensor Technology Ltd., ON)
600			

- what kind of engineering problems do you work on?
- describe your career trajectory to get to the point that you are at?
- what do you like most about your job (creativity, autonomy)?
- have you changed jobs within the last 5-10 years?
- what kind of work arrangements are possible at your organization?
- does your company support postgraduate studies for employees?
- how is work-life balance achieved in your organization?

