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# AJAY GANESH (HE/HIM), PH.D.,

## POSTDOCTORAL RESEARCHER, UNIVERSITY OF ALBERTA.

| DATA SCIENCE | SYSTEMS & CONTROL  
| ENERGY SYSTEMS | OPTIMIZATION |

### EDUCATION

**Doctor of Philosophy**, Process Control, *University of Alberta*, Canada. [Jan 2015 – Sep 2019]

**Master of Technology**, Control & Computing, *Indian Institute of Technology Bombay (IIT-B)*, India. [Jul 2011 – Jun 2014]

**Bachelor of Engineering**, Electronics & Communication, *Visvesvaraya Technological University*, India. [Sep 2003 – Jun 2007]

### SKILLS

**Simulation:** MATLAB-Simulink

**Programming:** C, C++, Python, Linux shell scripting,

**Data Analytics:** TensorFlow

**Documentation:** LATEX, MS-Office

**English Proficiency:** IELTS Band 7  
[R-7, W-6.5, L-7.5, S-7]  
(December 2020)

### HIGHLIGHTS

- ✓ **Research:** 10 years of experience in the field of Data Science and Systems & Control Engineering. Successfully published articles in renowned, high-impact-factor international journals, conferences, symposiums, and online platforms. Postdoc experience from the US (U Delaware).
- ✓ **Teaching:** Completed 60+ hours of graduate teaching and learning training; secured fully funded teaching award. Served thrice as Teaching Assistant, Grader, and Internship-student mentor; twice as a Principal Instructor and once as a Laboratory Manager for Data Analytics-related courses.
- ✓ **Industry:** 4 years of cumulative industrial experience as a Software Engineer (Image Processing) and Research Associate (Data Analytics).
- ✓ **Management:** Served as System Administrator for three years (part-time) maintaining the network infrastructure, mail & web servers.
- ✓ **Volunteering:** Conference Organization, work-shift sign-up for a non-profit organization, U of A Open House, and councilor for a professional body and a Student Hostel.

## EXPERTISE

- ✓ **Industry:** 4 years of experience in software development, documentation, and testing.
  - Software engineer at Larsen & Toubro Limited, Mysore, India. [Aug 2007 - Dec 2010]  
*Particulars:* Image Processing in C/C++, Microsoft Visual Studio IDE, Software Development Life Cycle process, Visual Source Safe.
  - Research Associate at IIT-B, India. [Aug 2014 - Dec 2014]  
*Particulars:* Online Fault Detection and Diagnosis of Self Powered Neutron Detector (SPNDs) Using Data Driven Techniques.
  
- ✓ **Research:** 10 Years' experience in Data Science and Systems & Control. [Aug 2011 - Present]
  - Postdoctoral researcher at the University of Alberta. [Jan 2021 - Ongoing]  
*Particulars:* Application of Data Analytics techniques to experimental and numerical modeling of reservoir geomechanics.
  - Postdoctoral researcher at the University of Delaware, USA. [Jan 2020 - Jan 2021]  
*Particulars:* Physics and Data Analytics-based modeling and control of natural gas dehydroaromatization process.
  - Doctoral researcher at the University of Alberta, Edmonton, Canada. [Jan 2015 - Sep 2019]  
*Particulars:* Proxy Model-based Closed Loop Reservoir Management: A data driven approach.
  - Master's researcher at the IIT-B, Mumbai, India. [Jun 2011 - Jul 2014]  
*Particulars:* Optimal Diminishing of Simple Complete Graphs.
  
- ✓ **Management:** System Administrator at the Computer lab of Electrical Engineering Department, IIT-B, India [Part-time, Jul 2011 – Jun 2014]  
*Particulars:* Maintaining and troubleshooting the Department network infrastructure, web, and mail servers.

## AWARDS AND RECOGNITION

- TW Fraser and Shirley Russell Teaching Fellowship: A fully mentored principal instructor position for an undergraduate course at CME Dept., U of A. [Fall 2018]
  - Best Integrated Team member award at Larsen & Toubro Limited, India [Sep 2009]
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