

Vuong V. Trinh

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EXPERIENCE	<p>Associate Researcher, Dong A University Research Institute Mar–Sep 2019</p> <ul style="list-style-type: none">• Work with Kim-Phuc Tran, Anh-Tuan Mai and Thu-Huong Truong on real-time anomaly detection algorithms for industrial Big Data, particularly for wireless sensor networks;• Familiar with Python (<i>Flask</i>, <i>Pandas</i>, <i>Scikit-Learn</i>), JS (<i>Highcharts</i>), Heroku (<i>Postgres</i>), AWS (<i>RDS</i>, <i>EC2</i>); editing tools (<i>TeX</i>, <i>Inkscape</i>); embedded systems (<i>Rasp Pi</i>, <i>STM32</i>). <p>R&D Engineer, Benjamin Muyl Design Sarl Sep–Dec 2018</p> <ul style="list-style-type: none">• Work with Benjamin Muyl and Antoine Guillou on simulation and optimization of sail yachts;• Contribute to <i>META</i> project by upgrading from Java and Matlab to Python using symbolic framework;• Deploy Python (<i>CasADi</i>), version management (<i>Git</i>), production tools (<i>Bash</i>) and unit-tests. <p>R&D Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives 2014–2017 Supervisors: Mazen Alamir and Patrick Bonnay on cryogenic process control and energetic optimization, within project ANR CRYOGREEN.</p> <ul style="list-style-type: none">• Develop advanced model predictive control strategies including explicit constrained control and hierarchical distributed coordination, via machine learning, applied optimization and numerical algorithms;• Dynamic model and simulation of compression stations and cryogenic refrigerators using <i>Simcryogenics</i>; involve in experiments with station 400W 1.8K at SBT and 18kW 4.5K LHC facilities at CERN;• Intensive use of Matlab and C (<i>CPLEX</i>, <i>ACADOtoolkit</i>); familiar with PLC (<i>Siemens</i>, <i>Schneider</i>), SCADA and Modbus; technology know-how (cold-box, valve, compressor, flow/pressure/temperature sensors). <p>Research Intern, Grenoble Images Parole Signal Automatique Laboratoire Jan–May 2014 Supervisors: Ioan Doré Landau and Luc Dugard, on robust active vibration analysis and control.</p> <ul style="list-style-type: none">• Perform system identification, robust control design and experiments using Matlab and xPC Target;• Laboratory instructor and teaching assistant within European Embedded Control Institute IGSC. <p>Industrial Intern, Yazaki Corporation Apr–Aug 2011</p> <ul style="list-style-type: none">• Analyse technical specifications and devise suitable solution for automotive wire production conveyors;• Setup control box, relays and inverters; program PLC and HMI; deploy AutoCAD, Step7 and WinCC.
EDUCATION	<p>M.S. Automation & Control Engineering, Université Joseph Fourier & Grenoble INP 2013–2014 Mention: <i>good (MiSCIT Program)</i> GPA: 15/20 Rank: 3/18</p> <p>B.S. Automation & Control Engineering, Hanoi University of Science and Technology 2007–2012 Mention: <i>good (Talented Engineer's Program)</i> GPA: 3.17/4.00</p>
AWARDS	<p>Excellence Master Fellowship, LabEx PERSYVAL-Lab 2013</p> <p>Vallet Scholarship for excellent academic performance, Rencontres du Vietnam 2008</p> <p>Double Prize in Physics (1st) and Maths (cons), Vietnam Mathematics & Youth Magazine 2007</p>
LANGUAGES	Vietnamese (<i>native</i>) English (<i>fluent: IELTS 6.5</i>) French (<i>basic</i>)
VALORISATION	<p>CS50's Introduction to Computer Science, edX Harvard University</p> <p>Six Sigma and Lean Processional Program, edX Technische Universität München</p> <p>TUM Lean Six Sigma Yellow Belt, Technische Universität München TUM School of Management</p> <p>Semaine d'Étude Maths-Info Entreprises, Agence Maths Entreprises</p>

