

# CURRICULUM VITAE

## Tien-Dung DO

Office : Laboratoire de Mécanique et Rhéologie  
7, Avenue Marcel Dassault – 37200 Tours, France  
Home address: Studio 109, RES UNIV LES GRRENNES  
8 Rue Gaspard Coriolis-37200 Tours, France  
Mobile : +336 52 54 38 14  
Email address : [dungdhkcn@gmail.com](mailto:dungdhkcn@gmail.com)



## EDUCATION

- 2010-2013: PhD in Mechanical Engineering and Production at Laboratory of Mechanics and Rheology in the University François Rabelais  
Title: Determination of the plastic zone size at the fatigue crack tip by using nanotest  
Advisors: Professor RANGANATHAN Narayanaswami and CHALON Florent
- 2009-2010: French course at Espace Ha Noi-Viet Nam
- 2004-2006: Master of Science in Internal combustion engine at Ha Noi University of Technology  
Title: Research of idle speed control for electronic fuel injection engine  
Advisors: Associate Professor PHAM Van The and PHAM Minh Tuan
- 1995-2000: Professional mechanics; Engineer of mechanical automobile at Ha Noi University of Communication and Transport
- 1991-1994 : High school

## CERTIFICATES

- Certificate of AutoCAD
- Certificate of Instron professional services
- Certificate of training on nanotest

## PUBLICATIONS

- Tien Dung DO, Rene.LEROY, Damien.JOLY "Computational contour of mixed mode crack-tip plastic zone for aluminum alloy 2024T351", *International Journal of Computational Materials Science and Engineering*, Vol. 2, No. 1 (2013)
- Tien Dung Do, Dr. Florent Chalon, Dr. René Leroy, Dr. Damien Joly and Pr. Naryanaswami Ranganathan, " Determination of Plastic Zones at the Crack Tip", in *Materials Characterization: Modern Methods and Applications*, Sci. Ed.M. Ranganathan, Pan Stanford Publishing , 2013

- Florent CHALON, Stéphane MEO, Tien Dung DO, Narayanaswami RANGANATHAN, "Numerical Modeling of Energy Dissipated in the Plastic Zone", Fatigue Crack Growth, Behavior and Analysis, Editors Ping Tang and Jm Leor Zhang, Nova Science Publishers, NY, USA, 2012, pp 293-312
- N. Ranganathan, N. Sedghi, D. Joly, TD. Do, R. Leroy, F. Chalon, P. Feraud, "A method for quantitative fatigue fracture surface analysis", 4th International Conference on Crack Path, 2012, Gaeta, Italie.
- TRAN Anh Trung, DO Tien Dung, DO Xuan Kinh, PHAM Minh Tuan "Research, manufacture and improve the gasoline injection controller ECU for cars", International conference on automotive technology for Vietnam, ICAT 2005

### **SCIENTIFIC CONFERENCES**

- Tien Dung DO, F. Chalon, Damien.JOLY, Rene.LEROY, N. Ranganathan "Measure of the plastic zone size at the fatigue crack tip by using technical nanotest" Conference on Mechanical reliability of electronic components, 2012, Tours, France
- Tien Dung DO, F. Chalon, Damien.JOLY, Rene.LEROY, N. Ranganathan "Estiamtion de la zone plastique en pointe de fissure par la technique de nanoindentation pour alliage d'aluminium 2024T351" Conference on material characterizations, 2013, Lorient, France

### **SCIENTIFIC ACTIVITIES**

- Initial management, 2012, Tours, France
- Modeling and simulations, 2012, Tours, France
- Initial treatment of the scientific latex, 2012, Tours, France
- Management of technical scientific informations on research, 2012, Tours, France
- Using Abaqus, 2012, Tours, France

### **PROFESSIONAL EXPERIENCES**

- 2003-2010: Lecturer in Thai Nguyen University of Technology, teaching about internal combustion engine and automobile
- 2002-2003: Technical cadre in Hanoi Mechanical automobile company 1-5
- 2000-2002: Technical cadre in Hanoi mechanical company number 120
- Fluent ATOCAD, Matlap, Microsoft office
- Using the machine Nanotest; Fatigue test machine "Instron E3000"; Scanning Electron Microscopy Machine; Wyko NT1100 Optical Profiling System

## RESEARCH OF INTEREST

- Fatigue of materials, Computational Materials Science and Engineering, Characterization of material by indentation
- Combustion engine and gas-turbine combustion
- Exhaust, applying alternative fuel and environment
- Automobile

## LANGUAGES

- Vietnamese: Native language
- French : Good
- English: Good

## HOBBIES

- Arts : Movies, music, guitar, travel
- Sports : Badminton, table tennis

## REFERENCES

1. Professeur RANGANATHAN Narayanaswami, Professeur des Universités

Address : Laboratoire de Mécanique et Rhéologie, Polytech Tours, Université François Rabelais, 7 Avenue Marcel Dassault, 37200 Tours, France

Website: <http://www.lmr.univ-tours.fr/membres/ranganathan.htm>

Email : [narayanaswami.ranganathan@univ-tours.fr](mailto:narayanaswami.ranganathan@univ-tours.fr) ; Téléphone : +33 2.47.36.13.36

2. Dr. Florent Chalon, Maître de Conférences

Address : Laboratoire de Mécanique et Rhéologie, Polytech Tours, Université François Rabelais, 7 Avenue Marcel Dassault, 37200 Tours, France

Website: <http://www.lmr.univ-tours.fr/membres/chalon.htm>

Email : [florent.chalon@univ-tours.fr](mailto:florent.chalon@univ-tours.fr) ; Téléphone : +33 2 47 36 13 12

3. Dr. René LEROY, Maître de Conférences - HDR

Address : Laboratoire de Mécanique et Rhéologie, Polytech Tours, Université François Rabelais, 7 Avenue Marcel Dassault, 37200 Tours, France

Website: <http://www.lmr.univ-tours.fr/membres/leroy.htm>

Email : [rene.leroy@univ-tours.fr](mailto:rene.leroy@univ-tours.fr) ; Téléphone : +33 6 20 09 57 25