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## Curriculum Vitae

### Personal Details

Full Name: Chawin Chantharasenawong

ชื่อ-สกุล: ชวิน จันทรเสนาวงศ์



Chawin Chantharasenawong

### Contact Details

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King Mongkut's University of Technology Thonburi  
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### Employment and Professional Collaborations

- January 2008 – present : Full time academic staff at the [Department of Mechanical Engineering, King Montkut's University of Technology Thonburi](#), Thailand
- October 2018 – present : Academic position Associate Professor
- July 2009 – August 2010 : Course instructor at [Anabas co., ltd.](#)

- June 2009 – May 2010: Technical adviser on wind energy at Environtech2 co., ltd.

### Managerial Positions (in appointment chronological order)

- June 2012 – May 2020: Associate Dean for International Affairs, [Faculty of Engineering](#), KMUTT
- March 2010 – June 2012 : Director of [International Centre for Engineering \(ICE\)](#)
- April 2010 – 2015 : Course director of [Bachelor of Engineering program in Mechanical Engineering \(Energy, Economics and Environment\)](#)
- June 2008 – present : Mechanical Engineering undergraduate student personal tutor

### Non-academic Appointment

- January 2014 – March 2016: Working Committee for [Princess Maha Chakri Award Foundation](#)
- April 2016 – present: Technical Committee Member for [Princess Maha Chakri Award Foundation](#)
- May 2018 – present: Deputy Manager for International Affairs Committee for [Princess Maha Chakri Award Foundation](#)
- September 2015 – September 2018: Board of Trustees member of Concordian International School
- September 2018 – present: Chairperson of the Board of Trustees member of Concordian International School

### Research Interests

- Wind energy technology
- Aeroelasticity
- Dynamic stall phenomenon
- Nonlinear dynamical systems

### Education

- 2007 PhD – [Department of Aeronautics, Imperial College London](#)
- 2003 MEng – [Department of Aeronautics, Imperial College London](#)
- 1999 GCE ‘A’ Levels – [St.Edward’s School](#), Oxford
- 1997 GCE ‘O’ Levels – [St.Andrew’s Secondary School](#), Singapore
- 1995 Lower Secondary – [St.Gabriel’s College](#), Bangkok

### Professional Development Program Participation

- 2014-2015 University Leadership and Management Training Course (UniLEAD), The German Academic Exchange Service (DAAD)

### Journal Publications

- C. Chantharasenawong, A. Chanta, P. Siripongarpone, and S. Kaoudom, Improvement of Formula Student Racecar Performance with Rotary Variable Runner Length for the Intake System, SAE Technical Paper 2018-01-0977, doi:10.4271/2018-01-0977 [[SAE International](#)]
- C. Chantharasenawong, *Improvement of Formula Student Racecar Performance with Variable Runner Length for the Intake System*, SAE Technical Paper 2017-01-1083, 2017, doi:10.4271/2017-01-1083 [[SAE International](#)]
- J. Peiró, U. Galvanetto, C. Chantharasenawong, *Assessment of added mass effects on flutter boundaries using the Leishman-Beddoes dynamic stall model*, Journal of Fluids and Structures, volume 26, Issue 5, January 2010, Pages 814-840, [[Sciencedirect](#)]
- U. Galvanetto, J. Peiró, C. Chantharasenawong, *An assessment of some effects of the nonsmoothness of the Leishman–Beddoes dynamic stall model on the nonlinear dynamics of a typical aerofoil section*, Journal of Fluids and Structures, volume 24, Issue 1, January 2008, Pages 151-163, [[Sciencedirect](#)]
- U. Galvanetto, J. Peiró, C. Chantharasenawong, *Remarks on the nonlinear dynamics of a typical aerofoil section in dynamic stall*, The Aeronautical Journal, 2007, Vol: 111, Pages: 731 – 739, ISSN: 0001-924, [[Royal Aeronautical Society](#)]

### Conferences Proceedings

- T. Sheravanichkul, N. Techasomboonsuk, T. Thonglerd and C. Chantharasenawong, Development of Bladeless Wind Turbine Generator, Presented at the 6th International Conference on Power and Energy Systems Engineering CPSE 2019, Okinawa, Japan, 20-23 September 2019 [[Publication](#), [Presentation](#)]
- S. Saengsaen, C. Chantharasenawong and T. L. Wu, A 2-D Mathematical Model of Vortex Induced Vibration Driven Bladeless Wind Turbine, Presented at the 3rd International Conference on Mechanical, System and Control Engineering ICMSE, St.Petersburg, Russia, 21-23 June 2019 [[Publication](#), [Presentation](#), [DOI](#)]
- S.Saengsaen, C. Thongkroy, W. Wechsato, and C. Chantharasenawong, Design an Efficiency Assessment of Solar Thermal Updraft Tower with Molten Salt as Heat Storage, Presented at the 2018 IEEE Student Conference on Electric Machines and Systems, Huzhou, China, 14-16 December 2018 [[Publication](#), [Presentation](#)]
- A. Siriwanapong and C. Chantharasenawong, Electric Motorcycle Charging Station Powered by Solar Energy, Presented at the 8th TSME International Conference on Mechanical Engineering, Bangkok, Thailand, 12-15 December 2017 [Publication, Presentation]
- T. Wongpatnanukul and C. Chantharasenawong, *Effect of Suspension Kinematic on 14DOF Vehicle Model*, Presented at the 4th International Conference on Mechanical, Materials and Manufacturing (ICMMM 2017), Atlanta, USA, 25-27 October 2017 [[Publication from IOP Conference Series](#), Presentation]
- Chunpongtong T., Limpaphan T., Kerdnok T., Ruangjirakit K., and Chantharasenawong C., *Computational Fluid Dynamics analysis of morphing blade for small horizontal axis wind turbine*, Presented at the 7th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 13-16 December 2016 [Publication]
- C. Chantharasenawong, V. Junburanasiri, J. Sirichotirat, and B. Paowasant, Design and Fabrication of Permanent Magnetic Bearings for Small Wind Turbines, Presented at the 7th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 13-16 December 2016 [Publication]
- Kollasuta D. and Chantharasenawong C., Development and Verification of Offshore Wind Farm Layout Optimisation Numerical Model with Wake Losses, Presented at the 10th South East Asian Technical University Consortium Symposium (SEATUC 2016), Tokyo, Japan, 22-24 February 2016 [Publication, Presentation]
- Chantharasenawong C., Kollasuta D., and Sukawat D., Development of Numerical Offshore Wind Farm Layout Optimisation Model with Wake Loss, Presented at 2015 International Conference on Alternative Energy in Developing Countries and Emerging Economics, Bangkok, Thailand, 28-29 May 2015 [Publication, Presentation]
- Chantharasenawong C., Worasinchai S., Rachavanich K., Wanawas N. and Suphachittakon S., Effects of rotor blade span on self-starting capability of Darrieus wind turbine, Presented at the 5th TSME International Conference on Mechanical Engineering, Chiang Mai, Thailand, 17-19 December 2014 [Publication]
- Chuamvarasart T., Chawin Chantharasenawong C. and Wongkittirat S., Conceptual design of small wind turbine blades with morphing ability, Presented at the 2014 World Congress on Advances in Civil, Environment, Metals Research (ACEM14), BEXCO, Busan, South Korea, 24-28 August 2014 [Publication]
- สุจารย์ส พันธุ์ประสิทธิ์เวช, นิลบล แหยมอุบล และ ชวิน จันทรเสนาวงศ์, การศึกษาปัจจัยสำคัญในการรับนักศึกษาและในการจัดการเรียนการสอน ที่ส่งผลกับผลการเรียนของนักศึกษาในระบบ Residential College ของคณะวิศวกรรมศาสตร์ มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี ประจำปีการศึกษา 2556 [Publication]
- Chantharasenawong C., Kollasuta D., Thananglertmalai T. and Sirirat P., A preliminary Formula Student racecar performance comparative analysis between space frame and semi-monocoque construction, Presented at the 4th TSME International Conference on Mechanical Engineering, Pattaya, Thailand, 16-18 October 2013 [Publication]
- Chuamvarasart T., Chantharasenawong C. and Khantachawana A., A conceptual design of small wind turbines with morphing blade, Presented at the 6th International Exergy, Energy and Environment Symposium, Rize, Turkey, 1-4 July 2013 [Publication, Presentation]
- Chantharasenawong C., Ruangjirakit K., Kaewtatip P. and Laoonual Y., A preliminary study of impact of 2015 inauguration of ASEAN Economic Community of the growth of Thailand electric vehicle industry, Presented at the 5th AUN/SEED-Net Regional Conference on New/Renewable Energy, Hanoi, Vietnam, 26-27 September 2012 [Publication, Presentation]

- Chantharasenawong C., Umar S., Nimitkul S. and Somsongsawat H., A feasibility study of wind powered irrigation system in Thailand tapioca farms, Presented at the 5th AUN/SEED-Net Regional Conference on New/Renewable Energy, Hanoi, Vietnam, 26-27 September 2012 [Publication, Presentation]
- Chantharasenawong C. and Promoppatum P., An investigation on racecar starting positions in the Student Formula competition Acceleration Event, Presented at the 8th International Conference on Automotive Engineering (ICAE-8), Bangkok, Thailand, 2-5 April 2012 [Publication, Presentation]
- Chantharasenawong C., Prapanavarat C. and Pliensakul A., Design and development of a 10kW permanent magnet synchronous generator prototype for a grid connected low wind speed wind turbine, Presented at the 6th South East Asian Technical University Consortium (SEATUC) International Symposium, Bangkok, Thailand, 6-7 March 2012 [Publication, Presentation]
- Chantharasenawong C., Jongpradist P. and Laoharatchapruet S., Preliminary design of 1.5-MW modular wind turbine tower, Presented at the 2nd TSME International Conference on Mechanical Engineering, Krabi, Thailand, 19-21 October 2011 [Publication, Presentation]
- Pumchaloen W., Chumueang R., Kialon A. and Chantharasenawong C., Assessment of Student Formula driver's safety through optimization of impact attenuator sizing, Presented at the 7th International Conference on Automotive Engineering (ICAE-7), Bangkok, Thailand, 28 March – 1 April 2011 [Publication]
- Chantharasenawong C. and Tipkaew W., Determination of Wind Turbine Blade Flapwise Bending Dynamics, Presented at the 1<sup>st</sup> TSME International Conference on Mechanical Engineering, Ubon Ratchathani, Thailand, 20-22 October 2010 [Publication]
- Saowjoo S., Saowadee W., Chantharasenawong C., Determination of HGA Aerodynamic Indicial Response for Unsteady Flow Computation, Presented at DST-con International Conference, BITEC, Bangkok, Thailand, 31 July 2010 [Presentation]
- วสวัตต์ เสาวดี, สมประสงค์ สาวจุ, ขวีน จันทรเสนาวงศ์, การคำนวณค่าสัมประสิทธิ์ของแพนอากาศสำหรับแบบจำลองไดนามิกสโตลโดยใช้ CFD, นำเสนอต่อการประชุมเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทยครั้งที่ 23, จังหวัดเชียงใหม่, 4-7 พฤศจิกายน 2552 [Publication]
- Chantharasenawong C., Suwantragul B., Ruangwiset A., Axial momentum theory for turbines with co-axial counter rotating rotors, Presented at the Commemorative international conference of the occasion of the 4th cycle anniversary of KMUTT Sustainable Development to Save the Earth: Technologies and Strategies Vision 2050: (SDSE2008), 7-9 April 2009 [Publication, Presentation]
- บันเทิง สวรรณตระกูล, ขวีน จันทรเสนาวงศ์, อรรณพ เรืองวิเศษ, ทฤษฎีโมเมนตัมตามแนวแกนสำหรับกังหันลมที่มีสองโรเตอร์หมุนสวนทางกัน, นำเสนอต่อการประชุมเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทยครั้งที่ 22, มหาวิทยาลัยธรรมศาสตร์ ศูนย์รังสิต, 15-17 ตุลาคม 2551 [Publication]
- U. Galvanetto, J. Peiró, C. Chantharasenawong, Nonlinear dynamics of an aerofoil in dynamic stall conditions, Presented at 7th World Congress on Computational Mechanics, Los Angeles, California, USA, 16-22 July 2006 [Programme]

## Supervised Student Project and Achievements

### TSAE Auto Challenge: Formula Student

- National Champions 2016, 2013, 2018
- National Runners-up 2017

### Schneider Electric: Go Green in the City

- National Champions 2013
- National Runners-up 2017, 2016

## Other Relevant Publications

- Chantharasenawong C., *Nonlinear aeroelastic behaviour of aerofoils under dynamic stall*, PhD Thesis, Imperial College London [Download]

## Other Notable Academic Services

- Chantharasenawong C., Assessment of hard disk Head Gimbal Assembly (HGA) aeroelastic stability, Presented at ANSCSE 15, Bangkok University, 1 April 2011 (Invited paper) [[Abstract](#), [Presentation](#)]
- ชรินทร์ เสนาวงศ์, วรวิทย์ ทิพย์แก้ว, การศึกษาการตอบสนองทางพลวัตของการตั้งของใบพัดกังหันลมในทิศทางตามลม, นำเสนอต่อการจัดประชุมระดมสมองการสร้างเครือข่ายความร่วมมือด้านวิจัยทอแมก : วิทยุวิจัยกับการพัฒนาประเทศ ประจำปี พ.ศ.2553 โรงแรมเอเชียราชเทวี กรุงเทพฯ, 21 พฤษภาคม 2553 [[Download publication](#), [Download presentation](#)]
- Chantharasenawong C., *Possibility of utilising wind energy in Thailand shrimp farms*, Presented at NSTDA Annual Conference 2010 ‘Science and Technology for our Society and Planet – Is Thailand ready for commercial wind energy?’, 31 March 2010[[Download Presentation](#)]
- Chantharasenawong C., *An assessment of Thailand’s wind energy technological advances and industry directions*, Presented at the 2nd Thailand-China Symposium on Advances in Renewable Energy Technology, Guanzhou, China, 15-17 December 2009 [[Download Presentation](#)]
- Chantharasenawong C., *Aerodynamics of Wind Turbine Control System*, Presented at the 1.5MW wind turbine pilot project operation seminar, Eastin Hotel, Bangkok, 21 August 2009 [[Download Presentation](#)]

## Previously Taught Courses

- Engineering Mechanics: Statics [[Download Syllabus](#)]
- Engineering Mechanics: Dynamics [[Download Syllabus](#)]
- Gas Turbine Theory [[Download Syllabus](#)]
- Introduction to Aeroelasticity [[Download Syllabus](#)]
- Wind Energy Technology [[Download Syllabus](#)]

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