

PERSONAL INFORMATION

Birthday: 14 October 1990 **Gender**: Female **Heigth:** 158 cm **Weight:** 50 kg

Nationality: Thai Race: Thai

Religion: Buddhist Marital status: Single

TOPICS OF INTEREST

- Finite Element Method (FEM)
- High pressure die casting process simulation
- Hydroplaning of motorcycle tire simulation

EXPERIENCE

2015 - 2021: Lecturer at Siam University which teaches about the mechanics of static and mechanics of fluid

2018 - present: Assistant Energy Conservation Inspector (ผู้ช่วยผู้ตรวจการ อนุรักษ์พลังงาน)

COMPUTER SKILL

- Solidwork
- MSC.Pratran, Dytran
- CAST Designer software
- Microsoft office (Word, Excel, Power point)

CONTACT INFORMATION

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Nongwang, Nikhomkhamsoi, Mukdahan,

49130

RESEARCH PROJECTS

PIYANUT MEETHUM

EDUCATION

2023: Doctor of Philosophy (Mechanical Engineering) Mahidol University, Nakhonpathom, Thailand.

• Thesis: Development of Motorcycle Tire Tread for Anti-Hydroplaning with Finite Element Method

2015: Master of Engineering (Mechanical Engineering) Mahidol University, Nakhonpathom, Thailand

• Thesis: Development of Auto-Part Design for High Pressure Die Casting Process

2013: Bachelor of Engineering (Mechanical Engineering) Mahidol University, Nakhonpathom, Thailand

• Senior project: Prototyping of the Wireless Device for Measuring Foot Plantar Pressure

CONFERENCES AND PUBLICATIONS

2014

 Meethum, P., Suvanjumrat. C. 2014. High Pressure Die Casting Model and Effective Factors for Porosity in Parts. In Proceeding of The 28th Conference of Mechanical Engineering Network of Thailand. 15-17 October 2014. Khon Kaen, Thailand.

2015

- Meethum, P., Suvanjumrat. C. 2015. Porosities Comparison between Production and Simulation in Motorcycle Fuel Caps of Aluminum High Pressure Die Casting. In Proceeding of The ICMETA International Conference on Mechanical Engineering. 29-30 March 2015. Singapore.
- Meethum, P., Suvanjumrat. C. 2015. Investigation of Flow Marks on Surface of High Pressure Die Casting Product using Computer-Aided Engineering. In Proceeding of The 29th Conference of Mechanical Engineering Network of Thailand. 1-3 July 2015. Nakhon Ratchasima, Thailand.

2016

 Meethum, P., Suvanjumrat. C. 2016. Evaluate of Chill Vent Performance for High Pressure Die-Casting Production and Simulation of Motorcycle Fuel Caps. In Proceeding of The ICMAM International Conference on Mechatronics, Automation and Manufacturing. 29-31 October 2014. Tokyo, Japan.

2017

 Meethum, P., Suvanjumrat. C. 2017. Evaluate of Chill Vent Performance for High Pressure Die-Casting Production and Simulation of Motorcycle Fuel Caps. In MATEC Web of Conferences 95.

2023

- Meethum, P., Suvanjumrat. C. 2023. Numerical Study of Dynamic Hydroplaning Effects on Motorcycle Tires. International Journal of Automotive and Mechanical Engineering, VOL. 20, ISSUE 1, 10192 – 10210.
- ทองเต็ม พีรยุทธ, อ่วมทับ ชัชวาลย์, มีธรรม ปิยะนุช, โชคชัยวิวัฒน์ วิษรสรรค์, จิรชาคริต ชนม์ วิโรจน์, ไทยเจริญ อาทร. Study of Front Stabilizer for Student Formula. (2567). การ ประชุมวิชาการเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทย ครั้งที่ 38. 38. 212-216.

2024

- Piyanut Meethum, Chakrit Suvanjumrat. Hydroplaning Effects of Tread Patterns of Motorcycle Tires. Journal of Transportation Engineering, Part B: Pavements (American Society of Civil Engineers). (2024). 151(1). 04024052.
- W Jariyatontivait and P Meethum. Potential Assessment of Cooling Systems under the Enforcement of Laws in Thailand. (2024). The 14th TSME International Conference on Mechanical Engineering.
- **2014-2015:** Development of Auto-Part Design for High Pressure Die Casting Process Funded by: Thailand Research Fund (TRF) and Mico Precision Co., Ltd.
- **2017-2023:** Development of Motorcycle Tire Tread for Anti-Hydroplaning with Finite Element Method: Thailand Research Fund (TRF) and ND Rubber Co., Ltd.