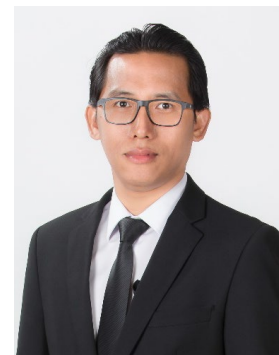


Curriculum Vitae



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Position: Instructor and Researcher
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Education

2013 **National Research Tomsk Polytechnic University, Russia**
Ph.D. Mechanical Engineering
2006 **Chiang Mai University**
Master of Engineering, Mechanical Engineering
2000 **Rajamangala University of Technology Thanyaburi**
Bachelor of Engineering mechanical engineering

Teaching work experience

2016 to present Master of Engineering Program Mechanical Engineering, Rajamangala University of
Technology Phra Nakhon
2003 to present Bachelor of Engineering Program Mechanical Engineering Rajamangala University of
Technology Phra Nakhon
2017 Aircraft maintenance technician course, Rajamangala University of Technology
Krungthep
2014 Diploma Program, Department of Mechanics, Suan Chitralada School

Executive work experience

May 2017 to 2021 Editor of Academic and Research Journal, Rajamangala University of
Technology Phra Nakhon (TCI Group 1 and ACI)
2016 to 2021 Chair of the Master of Engineering Program Mechanical Engineering
27 July 2017 to 26 July 2021 Director of Research and Development Institute Rajamangala
University of Technology Phra Nakhon
1 May to 26 July 2017 Acting Director of Research and Development Institute Rajamangala
University of Technology Phra Nakhon
28 Dec. 2015 to 30 Apr. 2017 Deputy Director of Research and Development Institute Rajamangala
University of Technology Phra Nakhon

Awards or outstanding work received

1. Outstanding researcher in the use of research results or utilization of creative works, Science and Technology Branch, Rajamangala University of Technology Phra Nakhon, 2022,
2. Outstanding researchers with outstanding innovations, Rajamangala University of Technology Phra Nakhon, 2022,
3. Gold Award from Prime Minister General Prayut Chan-o-cha. Research project series: Creating Innovation and Value Added to Native Dessert Products for Health of Phetchaburi Province, Under the research plan to create innovation and increase the value of local desserts for health Phetchaburi Province by supporting research funds from Thailand Research Fund (TRF). Organized by the National Research Council of Thailand (NRCT). 6 Aug. 2020,

Thesis main-advisor's experience

1. Chaiwat Chaimahapuk, “**Ceramic Armor Plates with Composite Materials,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2018.
2. Navapon Klangtup, “**Parameter Analysis that Affects the Ability to Resist Penetration of Metal-Based Ammunition Using Finite Element Method,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2019.
3. Manus Dangchat, “**A Design and Build Motorcycle Dummy Crash Test Human Body in Thailand,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2020.
4. Anucha Saicharoen, “**Parameter Analysis that Affects the Ability to Resist Penetration of Metal-Based Ammunition Aluminum armor using Finite Element Method,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2021.
5. Nutchanat Tongyai, “**Suitable Run-flat Wheel Shape for Armored Small Truck,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
6. Visa Khramum, “**Steel Armor Plates,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
7. Ngampan Chalo, “**A Study of Mechanical Properties of UHMWPE Composite for Run-flat,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
8. Mullika Dejsupa, “**Stress Analysis and Deformation of Stacked Metal Armor Plates Using the Finite Element Method,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
9. Krisada Sangparypun, “**An Investigation on the Behavior of High-strength Stacked Perforated Armor Plates Against 7.62 Armor-piercing Bullets Using the Finite Element Method,**” M.Eng

- (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
10. Thanakgon Boonhrong, “**Analysis of Parameters Affecting Bullet Penetration Resistance on Ceramics Armor Plates in Combination with Metal Armor Plates Using Finite Element Method,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
 11. Pheerutchai Krajangsod, “**Strength and Failure Analysis of an Automotive Bumper Using Finite Element Method,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2023.
 12. Peerasit Chullabodhi, “**Influence of Aluminum oxide on thermal properties, mechanics and tribology of Ultra-high molecular weight polyethylene,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2023.
 13. Wichanchai Pleenaram, “**Improving the tribological performance of ultra-high molecular weight polyethylene by combining lightweight metal reinforcements,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2023.
 14. Ratchapong Kabjun, “**Study on the recycling of superhigh molecular weight polyethylene affecting mechanical and tribological properties,**” M.Eng (Mechanical Engineering) Thesis, Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2023.

Thesis co-advisor's experience

1. Poomin Minaboon, “**Analysis of Stress Concentration and Deformation of Run-flat Tires for Passenger Cars by Finite Element Method,**” M. Eng Thesis (Mechanical Engineering) , Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
2. Nuttapon Meesanu, “**Study of Parameters for Forming Hexagonal Bulletproof Ceramic Armor Plate,**” M. Eng Thesis (Mechanical Engineering) , Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
3. Maitree Thawornsin, “**Analysis of the Inclination Angle and Thickness of the Armor Plate of the Bullet Resistant on the Aluminum and Stainless Steel Plates by Finite Element Method,**” M. Eng Thesis (Mechanical Engineering) , Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
4. Alongkot Thajak, “**Run-flat Wheel Design for Passenger Cars with Finite Element Method,**” M. Eng Thesis (Mechanical Engineering) , Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.
5. Kampanat Koedkaen, “**Analysis of the Effects of Wind from Vehicle Movement on Road Signs and the Guidepost Structure Straddling the Road Surface Using the Finite Element Method,**” Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.

6. Prakasit Poomipak, “**Design and Analysis of Metal Molds for Forming Run-flat Tires for Passenger cars Using the Finite Element Method,**” Dept. Mechanical Engineering, Rajamangala University of Technology Phra Nakhon, Bangkok, Thailand, 2022.

Training Experience

- Basic Wiring & Electrical System Learning
- Basic PLC Programming & PLC Wiring, Programming to control a 4-axis industrial robot arm and motor speed with a remote inverter via the internet
- SolidWorks Flow Simulation Course
- Workshop course for evaluators (System Analysis) and Automation System Analysis course
- Computational Fluid Dynamics
- Finite Element Method Fundamentals
- Basic Structural FEM
- Standard procedures Principles for reviewing the consent process and Human Subject Protection for Layperson
- The operation of human research ethics committees
- 2nd IRB Establishment and IRB Administrative Staff
- 1st Training Course for IRB Establishment and IRB Administrative Staff for the year 2022 (Biomedical)
- Basic & Advanced Human Research Ethics Training Course
- Importance of research ethics in humans and passed the Human Subjects Protection-Standard Course workshop
- Ethics of Research in Humans for Teachers and Researchers
- Research Ethics & GCP Course Human Research Ethics in a New and Challenging Era
- the establishment of the Human Research Ethics Committee No. 2/2018, 23-24 August 2018
- ethics of human research For Biomedical Research
- Guidelines for the establishment of the Human Research Ethics Committee of the Institute
- Ethics of Research in Humans
- Prepare for the establishment of an institute's research ethics committee for office staff

Academic works presented in academic conferences

- [1] N. Angsuseranee, J. Chumin, T. Boonhrong and **P. Chartpuk**, “Finite Element Simulation of Ceramic/Aluminum Alloy Armor Plates Under Impact from 7.62 mm Bullets,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 782-793.
- [2] N. Angsuseranee, **P. Chartpuk**, M. Dejsupa and J. Chumin, “Analysis of the Multilayer Armor Penetration Resistance of Aluminum Alloys Using Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 767-781.

- [3] R. Thipsena, N. Angsuseranee, E. Jaiboon, E. Songkroh, S. Suwanprateep, S. Sirikasemsuk and **P. Chartpuk**, “Finite Element Simulation of Stacked Metal Armor Plates SKD11/SS304/Aluminum Under the Impact of 7.62 Bullets According to NIJ 3 Standards,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 757-766.
- [4] P. Chullabodhi, J. Tharajak, J. Chumin, P. Wirotcheewan, P. Tinprabath, N. Angsuseranee and **P. Chartpuk**, “Influence of Aluminum Oxide on the Mechanical and Thermal Properties of Ultra-high Molecular Weight Polyethylene,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 794-801.
- [5] W. Pleenaram J. Chumin, J. Tharajak, P. Tinprabath, P. Wirocheewan, N. Aagsuseranee and **P. Chartpuk**, “Study of Mechanical Properties of Ultra-high Molecular Weight Polyethylene Reinforced with Lightweight Metal,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 802-808.
- [6] P. Kamuanglue and **P. Chartpuk**, “ Multi-directional Force Deformation Analysis and Natural Frequency Analysis of the Structure of a Car Bumper Testing Machine Using the Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 849-854.
- [7] W. Pleenaram, J. Chumin, Jirasuk Tharajak, P. Tinprabath, P. Wirocheewan, N. Aagsuseranee and **P. Chartpuk**, “Optimization of Tribological Performance of Ultra-high Molecular Weight Polyethylene Reinforced with Lightweight Metal,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 842-848.
- [8] P. Krajangsod and **P. Chartpuk**, “Finite Element Analysis of Frontal Car Bumper Crash Using Lightweight Materials,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 832-841.
- [9] P. Chullabodhi, J. Tharajak, J. Chumin, P. Wirotcheewan, P. Tinprabath, N. Angsuseranee and **P. Chartpuk**, “Influence of Aluminum Oxide on Tribology and Wear of Ultra-high Molecular Weight Polyethylene,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 816-823.
- [10] P. Kamuanglue and **P. Chartpuk**, “Structural Design and Strength Analysis of an Automotive Bumper Testing Machine Using Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 824-831.
- [11] J. Chumin, A. Tempiam, K. Sangparypun and **P. Chartpuk**, “Finite Element Analysis of Bullet Impact on Multilayered Metal Armor Plates,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 872-883.

- [12] R. Kabjun, J. Tharajak, J. Chumin, P. Tinprabath, P. Wirotcheewan, N. Angsuseranee and **P. Chartpuk**, “Study of the Impact of the Recycling Process of Ultra-high Molecular Weight Polyethylene on Tribology and Wear,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 864-871.
- [13] R. Kabjun, J. Tharajak, J. Chumin, P. Tinprabath, P. Wirotcheewan, N. Angsuseranee and **P. Chartpuk**, “Study of the Impact of the Recycling Process of Ultra-high Molecular Weight Polyethylene on Mechanical and Thermal Properties,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 809-815.
- [14] P. Krajangsod and **P. Chartpuk**, “Strength Analysis of a Car Bumper Using Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 9th RMTC*, 1–3 May 2024 at The Heritage Chiang Rai Hotel and Convention, Mueang Chiang Rai District, Chiang Rai, pp. 855-863.
- [15] K. Sangparypun, S. Monhkonlerdmanee, J. Chumin, P. Phangphet and **P. Chartpuk**, “Investigation of the Behavior of Perforated Armor Plates Against 7.62x51 mm Armor-Piercing Projectiles Using the Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 8th RMTC*, 24–26 May 2023 at Amari Pattaya Hotel, Chonburi Province, pp. 952-963.
- [16] T. Boonhrong, S. Monhkonlerdmanee, P. Phangphet, J. Chumin and **P. Chartpuk**, “Analysis of the Damage of Bulletproof Armor Plates from Alumina 95% and AL-7075 T6 Plates by Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 8th RMTC*, 24–26 May 2023 at Amari Pattaya Hotel, Chonburi Province, pp. 919-928.
- [17] M. Dejsupa, S. Monhkonlerdmanee, K. Apinyavisit, P. Phangphet, J. Chumin and **P. Chartpuk**, “Prediction of Failure Behavior of 5083-H116 and 7075 T6 Aluminum Bulletproof Armor Plates by Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 8th RMTC*, 24–26 May 2023 at Amari Pattaya Hotel, Chonburi Province, pp. 929-941.
- [18] K. Koedkaen, P. Wirotcheewan, P. Khomwachirakul, P. Boonyalai and **P. Chartpuk**, “Analysis of the Effects of Wind from Vehicle Movement on Road Signs and the Structure of Guideposts Straddling the Road Surface Using the Finite Element Method,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 8th RMTC*, 24–26 May 2023 at Amari Pattaya Hotel, Chonburi Province, pp. 942-951.
- [19] P. Poomipak, K. Apinyavisit, P. Boonmee, S. wannapor and **P. Chartpuk**, “Metal Mold Design for a Safety Wheel Forming of a Passenger Car,” in *Proceeding of Rajamangala Manufacturing & Management of Technology Conference; 8th RMTC*, 24–26 May 2023 at Amari Pattaya Hotel, Chonburi Province, pp. 742-748.
- [20] T. Soteyome, N. Dowcharoenporn, C. Auppathak, **P. Chartpuk** and Z. Xu, “Effect of Modified Atmosphere on Thong Yod Shelf-Life Extending,” in *Proceeding of the 12th Rajamangala University of Technology National Conference*, at Royal Cliff Grand Hotel, Pattaya, Chonburi, 18-20 May 2022, pp. 473-482.
- [21] A. Thajak, **P. Chartpuk** and P. Tinprabath, “Finite Element Analysis of Aluminum Run Flat Wheels for Passenger Cars,” in *Proceeding of the 12th Rajamangala University of Technology*

National Conference, at Royal Cliff Grand Hotel, Pattaya, Chonburi, 18-20 May 2022, pp. 1139-1153

- [22] N. Meesanu, P. Wirotcheewan, D. Nicomrat and **P. Chartpuk**, Analysis of a Concave Bulletproof Plate for Refracting the Bullet Impact Direction with Finite Element Method,” in *Proceeding of the 11th Rajamangala University of Technology International Conference “RMUT Driving toward Innovation, Economy and Green Technology for Sustainable Development”* Royal Cliff Grand Hotel, Pattaya, Thailand, 18-20 May 2022, pp. 161-168.
- [23] M. Thawornsin, S. Mongkonlerdmanee, D. Nicomrat and **P. Chartpuk**, “The Parameter Analysis of the Tungsten Carbide and SUS304 Armor Plate with a Finite Element Method,” in *Proceeding of the 11th Rajamangala University of Technology International Conference “RMUT Driving toward Innovation, Economy and Green Technology for Sustainable Development”* Royal Cliff Grand Hotel, Pattaya, Thailand, 18-20 May 2022, pp. 169-179.
- [24] P. Minaboon, **P. Chartpuk**, P. Tinprabath and P. Wirotcheewan, “Analysis of Stress Distribution and Deformation of Run Flat Tires for Passenger Cars Using Finite Element Method,” in *Proceeding of the 12th Rajamangala University of Technology National Conference*, at Royal Cliff Grand Hotel, Pattaya, Chonburi, 18-20 May 2022, pp. 1123-1138
- [25] E.S. Dvilis, O.L. Khasanov, and **P. Chartpuk**, “Analysis of the deformation of powder body having increased aspect ratio at dry pressing by the collector mold of spiral type,” in *Proceeding of the 2nd International Conference on Applied Science, Engineering and Interdisciplinary Studies*, Thailand, 2019, pp. 65-68.
- [26] V. Aitviriyaphan, P. Wirotcheewan, **P. Chartpuk** and N. Albutt, “Magnetic Properties in $\text{Ba}_2\text{FeMoO}_6$ (BFMO) Double Perovskites,” in *Proceeding of the 2nd International Conference on Applied Science, Engineering and Interdisciplinary Studies*, Thailand, 2019, pp. 76-79.
- [27] **P. Chartpuk** and S. Luangsod, “Fatigue Analysis and Design of Reform Using Finite Element Method” in *Proceeding of Conference on Creative Technology*, Rajamangala University of Technology Krungthep, Bangkok, Thailand, August 24 - 26, 2016.
- [28] **P. Chartpuk** and A. Tempiam, “Maintenance of Biodiesel Production Machine and Knowledge Transmission of Biodiesel Production from Used Vegetable Oil,” in *2nd International Symposium on Local Wisdom and Imparting Quality of Life*, Thailand, 2015.
- [29] **P. Chartpuk**, A. Tempiam, S. Luangsod, V. Voranawin, “The Comparison of the Characteristics of Displacement Isolines in the Cylindrical Green Compact under Ultrasonic Vibration,” in *International Symposium on the Fusion Technologies 2014 (ISFT2014)*, KOREA, 2014.
- [30] E.S. Dvilis, V.M. Sokolov and **P. Chartpuk**, “Development of collector ultrasonic mold for industrial technology of the uniaxial dry pressing of ceramic powders,” in *VI All-Russian Scientific Conference “Science Initiative foreign undergraduate and graduate students of Russian universities*, Institute of International Education and Language Communication of Tomsk Polytechnic University, Tomsk, 2013, vol. 1, pp. 486-492.
- [31] O.L. Khasanov, E.S. Dvilis, V.M. Sokolov and **P. Chartpuk**, “Deformation distribution of the powder green compacts due to changing the number of slider parts in collector die of spiral type,” in *Abstracts of German-Russian Forum on Nanotechnology*, Tomsk, Russia, 2013, pp. 65.
- [32] O.L. Khasanov, E.S. Dvilis, V.M. Sokolov and **P. Chartpuk**, “Investigation of the characteristics of displacement isolines in the cylindrical green compact,” in *Abstracts of German-Russian Forum on Nanotechnology*, Tomsk, Russia, 2013., pp. 64.

- [33] E.S. Dvilis, O.L. Khasanov, **P. Chartpuk** and V.M. Sokolov, “Optimal design of the spiral type of collector die for dry powder compaction,” in *Proceedings of the 8th International Forum on Strategic Technology (IFOST2013)*, Mongolian University of Science and Technology (MUST), Ulaanbaatar, Mongolia, 2013, vol. 1, pp. 25-28, IEEE catalog number CFP13786-PRT.
- [34] S. Luangsod, A. Tempiam, T. Fongsamootr and **P. Chartpuk**, “Stress analysis of stiffener plate at the base of the overhanging traffic sign post under effect of vehicle-induced gusts,” in *Proceedings of the 7th International Forum on Strategic Technology (IFOST2012)*, National Research Tomsk Polytechnic University, Tomsk, Russia, 2012, vol.1, pp. 1105-1109, IEEE catalog number CFP12786-PRT.
- [35] O.L. Khasanov, E.S. Dvilis, V.M. Sokolov and **P. Chartpuk**, “The Comparison of Model Compaction Method to Make Uniformly Dense Ceramic Bodies,” in *Proceedings of the 7th International Forum on Strategic Technology (IFOST2012)*, National Research Tomsk Polytechnic University, Tomsk, Russia, 2012, vol. 1, pp. 489-493, IEEE catalog number CFP12786-PRT.
- [36] S. Luangsod, A. Tempiam, T. Fongsamootr, **P. Chartpuk**, “Stress analysis of stiffener plate at the base of the overhanging traffic sign post under effect of vehicle-induced gusts,” in *Proceedings of the 7th International Forum on Strategic Technology (IFOST2012)*, National Research Tomsk Polytechnic University, Tomsk, Russia, 2012, vol.1, pp. 1105-1109, IEEE catalog number CFP12786-PRT.
- [37] O.L. Khasanov, E.S. Dvilis and **P. Chartpuk**, “Comparison and optimization of process efficiency compaction of powder materials in the collector mold of spiral type,” in *IX International Conference of Students and Young Scientists "Prospects for the development of fundamental sciences"*, Russia, Tomsk, 2012, pp. 272-274.
- [38] O.L. Khasanov, E.S. Dvilis and **P. Chartpuk**, “The uniform distribution of deformation of powder materials in the collector mold spiral type,” in *V All-Russian Scientific Conference "Science Initiative foreign undergraduate and graduate students of Russian universities*, Institute of International Education and Language Communication of Tomsk Polytechnic University, Tomsk, Russia, 2012, vol. 2, pp. 205-209.
- [39] E.S. Dvilis, O.L. Khasanov and **P. Chartpuk**, “Design of ultrasonic and collector molds for industrial technology of the uniaxial dry pressing of ceramic powders,” in *10th International Symposium on Ceramic Materials and Components for Energy and Environmental Applications*, Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Germany, 2012, pp. 80-81.
- [40] **P. Chartpuk**, E.S. Dvilis and O.L. Khasanov, “The analysis and modelling of powder densification process in the collector mould of spiral type,” *Modern ceramic materials. Properties, Technology, Application, KeramSib–2011*, in *Proceedings of the III International Scientific and Practical Conference*, Novosibirsk: Publishing House, Nonpareil, 2011, pp. 111-112.

Academic works published in academic journals

- [1] Nuchanat Tongyai and **P. Chartpuk**, “A Pattern Design for Run Flat Wheel Suitable for Small Regular Armored Truck Using Finite Element Method,” *RMUTP Research Journal*, vol. 16, no. 2, Jul.-Dec. 2022.

- [2] Visa Khratum and **P. Chartpuk**, “Finite Element Analysis of Armor Piercing Bullet Penetrating Hard Steel Armor Plate,” *RMUTP Research Journal*, vol. 16, no. 2, Jul.-Dec. 2022.
- [3] P. Boonyalai, **P. Chartpuk**, S. Wannaphor and S. Mongkonlerdmanee, “A design of suitable innovation for community by design thinking process: A case study of Bangkhunsai sub-district, Phetchaburi province,” *Modern Management Journal*, vol. 20, no. 2, pp. 75–88. 2022.
- [4] A. Saicharoen, P. Tinprabath and **P. Chartpuk**, “Parameter Analysis that Affects the Ability to Resistance Penetration of Ammunition on the Aluminum Armor Surface Using Finite Element Method,” *RMUTP Research Journal*, vol. 16, no. 1, pp. 177-191, 2022.
- [5] N. Chalo and **P. Chartpuk**, “Mechanical Properties of UHMWPE Composite with Al₂O₃ for Application in Engineering,” *RMUTP Research Journal*, vol. 16, no. 1, pp. 192-202, 2022.
- [6] M. Dangchat, S. Pokterng and **P. Chartpuk**, “Design a prototype of male dummy chest for motorcycle crash test,” *Engineering Journal of Research and Development*, vol. 31, no.2, Aug. 2020.
- [7] **P. Chartpuk** and N. Klangtup, “Parameter Analysis of SKD11 and SUS304 Bulletproof Plate that Resistance Penetration of Bullet 7.62 mm According to Standard Nij 4 by Finite Element Method,” *International Journal of Mechanical Engineering and Technology (IJMET)*, vol. 10, no. 9, pp. 207-221, Sep. 2019.
- [8] **P. Chartpuk** and C. Chaimahapuk, “Analysis of Stress Distribution for Powder Compression Molding by Finite Element Method,” *Journal of Applied Mechanics and Materials*, vol. 891, pp. 269-274, 2019.
- [9] E.S. Dvilis, **P. Chartpuk**, O.L. Khasanov, V.M. Sokolov, “Model studies of character of deformation of the powder body at various methods of compaction,” *Journal of higher education institutions-Physics*, vol. 56, no. 7/2, pp. 227-231, 2013.
- [10] E.S. Dvilis, **P. Chartpuk**, O.L. Khasanov, V.M. Sokolov, B.A. Eshetov, “Analytical and optimization model kinematic scheme uniformly dense compression powder materials,” *Bulletin of Tomsk Polytechnic University*, vol. 323, no. 2, pp. 49-55, 2013.
- [11] E.S. Dvilis, **P. Chartpuk**, O.L. Khasanov, V.M. Sokolov, “Optimization of geometrical parameters of the collector mold of spiral type,” *Journal of higher education institutions-Physics*, vol. 56, no. 7/2, pp. 232-240, 2013.
- [12] O.L. Khasanov, E.S. Dvilis, V.M. Sokolov, **P. Chartpuk**, “Model optimization for compaction process of powder materials in collector mold of spiral type,” *Journal of higher education institutions.Physics*, vol. 55, no. 5/2, pp. 263-269, 2012.
- [13] V. Vorawit, S. Luangsod, **P. Chartpuk**, “Analysis of stress concentration that occurs in the reform with finite element method,” *RMUTP Research Journal*, vol. 5, no.1, 2011.

Expertise (Please specify your specialization)

Composite materials, innovative applications of ceramics and polymers, design and fabrication of composite bulletproof armor, design and fabrication of manufacturing machines, automatic control systems, part design. mechanical part, material engineering, spatial research, reverse engineering part design, finite element analysis, computational fluid dynamics, and mold and die design.