Teacher Introduction
Zhengzhou University of Light Industry
College of Mechanical and Electrical Engineering

导师照片	
	**Wei Shizhong** College of Mechanical and Electronic Engineer, professor, doctoral supervisor Teaching Courses: Principles of Friction and Wear Research Field and Interests: 1. The life extension and control technology of high-performance metal wear-resistant materials, the synergistic mechanism of the composition, organization, and properties of the overall material and composite materials. 2. The solidification, pressure processing technology of heavy equipment large-scale casting and forging basic parts, establishing manufacturing design principles, and researching extreme manufacturing processes. 3. The functional development and engineering of high-strength and toughness materials, collaborative research and development of special functions with digital and information technology, and research on new refractory alloys. Major Projects: Hosted national natural science foundation, "13th Five-Year" national key research and development program projects, major projects of cooperation between the Chinese Academy of Engineering and local governments, major special projects of the National Development and Reform Commission, national strategic emerging industry development special projects, key projects of the military commission's basic strengthening plan, key projects of the Ministry of Science and Technology enterprise innovation platforms, and other national, provincial, and ministerial projects, as well as large enterprise commissioned projects, totaling more than 30. Email: hnwsz@126.com

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导师照片	
	**Xiao Yanqiu** Professor, Ph.D., Doctoral Supervisor, the director of the Collaborative Innovation Center of Henan Province for intelligent tunneling equipment, and the director of the International Joint Laboratory for intelligent monitoring and control of complex mechanical equipment in Henan Province. **Teaching Courses:** 《CAD/CAM Technology and Application》 《Fundamental of Mechanical Manufacture》 **Research Field and Interests** 1. Digital design and manufacturing of complex equipment 2. Dynamics analysis and control of mechanical and electrical system 3. New energy intelligent & connected vehicles **Major Projects** 1. Accurate pose estimation and adaptive compliance control of hydraulic manipulator under variable heavy load conditions, Project of National Natural Science Foundation of China, 2024-2027. 2. State perception and dynamic compensation control theory of hybrid mechanism based on multi-source information fusion, Key Research Project of Universities in Henan Province in 2023, 2023-2025. **Email:** xiaoyanqiu@zzuli.edu.cn

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导师照片	
	**Qiao DongPing** College of Mechanical and Electrical Engineering, associate professor, master supervisor Teaching Courses: Technology and Application of Industrial Robot, Modeling and Simulation of Intelligent Manufacturing System, Foundations of Intelligent Manufacturing System Research Field and Interests: Digital manufacturing system, Smart manufacturing, Production schedule Major Projects: 1.Informationization planning for an equipment manufacturing enterprise , Enterprise Technology Reformation, project manager,2011.7-2014.7 2.Research on Production Logistics Control Based on Integration of MRPII/JIT/TOC(No. 132102210426), Key Science and Technology Project of He'nan Province, Principle Investigator, 2013.1-2015.12 3.Research and Application of Distributed Production Scheduling for Digital Twin Workshops,(No.20A460029),Key scientific research projects in higher education institutions,2020.1-2022.12 4.Research and Application of Key Technologies for Green Multi-Objective Scheduling in Flexible Job Shops Based on Digital Twin (No. 242102221018), Key Science and Technology Project of He'nan Province, Principle Investigator, 2024.1-2025.12 Email: buaa_qdp@163.com

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导师照片	
	**He Wenbin** College of mechanical and electrical engineering, professor, PhD supervisor Teaching Courses: Fundamentals of mechanical manufacturing technology, Advanced manufacturing theories and technologies Research Field and Interests: Precision processing and green manufacturing, Digital design and manufacturing of equipment Major Projects: Research and Application of Key Safety Technologies for Electric Bus Driving Based on Multi-Source Data from Human and Vehicle Email: hwb@zzuli.edu.cn

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导师照片	
	**Hou Junjian** College of Mechanical and Electrical Engineering, professor, master supervisor Teaching Courses: Automobile culture; Automobile theory; Vehicle noise and vibration control Research Field and Interests: Vehicle vibration and noise control; Sound source identification; Acoustic fault diagnosis. Major Projects: (1)Research on Fault Feature Extraction Method Based on the Temporal- Spatial Holographic Model of Sound Field, 51505433 ,National defense technology foundation for scientific research projects，2016.01~2018.12. (2)Research on distribution characteristics of tool machining sound field and diagnosis method of tool sound field, 232300420090, Natural Science Foundation of Henan Province, 2023.01-2024.12. Email: houjunjian@zzuli.edu.cn

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导师照片	
	**Liu Kun** College of Mechanical and Electrical Engineering, master supervisor Teaching Courses: Fluid mechanics and fluid transmission, Precision machining and special machining, Surface technology Research Field and Interests: Advanced manufacturing technology, Additive manufacturing, Gas sensor Major Projects: National Natural Science Foundation Project (2004169) Email: liukun023@zzuli.edu.cn

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导师照片	
	**Ye Guoyong** College of Mechanical and Electrical Engineering, professor, PhD supervisor Teaching Courses: Fundamentals of Machine Manufacturing Technology, Micro and Nano Manufacturing Technology Research Field and Interests: Micro/nano manufacturing, Smart sensing, Precision measurement and control Major Projects: Natural Science Foundation of China (52075430), Henan Provincial Science and Technology Research Project (222300420093). Email: guoyongye2021@163.com

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导师照片	
	**Wu Chao** College of mechanical and electrical engineering, professor, master supervisor Teaching Courses: Mechanical principle, Machine design Research Field and Interests:Bearing lubrication theory, Dynamics of bearing rotor system Major Projects: 1 Stability study of GMA controllable oil film bearing rotor system, National natural science foundation of China(U14045152015-2017); 2 Stability study of wire cutting tilting pad bearing rotor system, Henan Province's Science and Technology Research and Development(202102210071); 3 Stability study of GMA controllable deep and shallow cavity sliding bearings, Key basic research projects of higher education institutions in Henan province(23A460001) Email: Wuchao@zzuli.edu.cn

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导师照片	
	**Gong Xiaoyun** College of mechanical and electrical engineering, professor, master supervisor Teaching Courses: Mechanical engineering testing technique, Machinery fault diagnosis Research Field and Interests: Condition monitoring and fault diagnosis, Machine learning-based fault recognition Major Projects: [1] National Natural Science Foundation of China, No.51405453, Study of Empirical Mode Decomposition Theory Based on Full Vector Spectrum Theory and its Application in Coupling Rotor Fault Diagnosis. [2] International Science & Technology Cooperation Project of Henan Province, No.JDG20180008, Research on Intelligent Diagnosis Method for Motor Broken Bar Faults Using Multi-Sensor Data Fusion. [3]Natural Science Foundation of Henan Province, No. 252300421346, Heterogeneous Data Correlation Mechanism and Fusion Diagnosis for Electromechanical-hydraulic Coupled Faults of Ultrahigh-pressure Equipment. [4] National Natural Science Foundation of China, No.52275138, Flow Model Based Fault Diagnosis for Thruster of Autonomous Underwater Vehicle. Email: 2013011@zzuli.edu.cn

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导师照片	
	**Zhang Zhigang** College of Mechanical and Electrical Engineering, associate professor, master supervisor Teaching Courses: 《Advanced dynamics》《Automobile Body Design》 Research Field and Interests: Multibody system dynamics an control; Vehicle Dynamics; Human Factor Vibration Engineering Major Projects: (1) Research on geometrically exact modeling of spatial compliant mechanisms with large deformation and high efficiency simulation method, National Natural Science Foundation of China (No.11602228), 2017.01-2019.12, Principal Investigator (2) Research on Control Method for Intelligent Driving under Occupant Motion Sickness Constraints, National Natural Science Foundation of China (No.52472441), 2025.01-2028.12, Co-Investigator Email: zhigangzhang@foxmail.com

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导师照片	
	**Wen Xiaoyu** School of Mechanical and Electrical Engineering, associate professor, master supervisor Teaching Courses: Production Planning and Control, Engineering Numerical Methods, Intelligent Optimization Algorithm Research Field and Interests: Mainly engaged in research on job shop scheduling, digital twin, and manufacturing system operation optimization. Major Projects: Hosted two national-level projects and four provincial and ministerial-level projects: 1. National Natural Science Foundation of China General Program (Grant No. 52475543), 2024-2028, principal investigator 2. National Natural Science Foundation of China Youth Program (Grant No. 51905494), 2020-2022, principal investigator 3. Ministry of Education Humanities and Social Sciences Research Youth Fund (Grant No. 19YJCZH185),2019-2021, principal investigator 4. Henan Province University Science and Technology Innovation Talent Support Plan (Grant No. 24HASTIT048), 2024-2026, principal investigator 5. Henan Provincial Science and Technology Key Research project (Grant No. 232102221009), 2023-2024, principal investigator 6. Henan Provincial Science and Technology Key Research project (Grant No. 202102210088), 2020-2021, principal investigator Email: wenxiaoyu@zzuli.edu.cn

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导师照片	
	**Li Hao** Dean of college of mechanical and electrical engineering, professor, doctoral supervisor Teaching Courses: Modern design theory and methodology, design of mechanical manufacturing equipment, introduction to mechanical engineering Major Projects: National natural science foundation of china (NSFC) general program “theory and method for cooperative optimization of structural design and operational parameters in complex particle-fluid equipment via digital twin” (2022-2025), NSFC general program “modeling, design, and optimization of modular product-service systems for mass personalization” (2018-2021), national key technology R&D program (subproject) “key technologies and applications of service systems for high-end heavy equipment manufacturing based on full lifecycle” (2015-2017), Henan provincial key r&d program “digital twin-based health monitoring and intelligent maintenance decision-making technology for mineral crushing/grinding equipment” (2024-2025), NSFC young scientists fund “modular structure modeling for complex integrated service-oriented mechanical products” (2013-2015). Email: lihao@zzuli.edu.cn

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导师照片	
	**Du Wenliao** College of Mechanical and Electrical Engineering, professor, doctoral supervisor Teaching Courses: Machine Learning and Intelligent Maintenance Research Field and Interests: Intelligent maintenance of mechanical equipment, Signal processing of mechanical systems, Mechanical dynamics Major Projects: National Natural Science Foundation Project (52275138), Key R&D projects in Henan Province (231111221100). Email: dwenliao@zzuli.edu.cn

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导师照片	
	**Wang Haoqi** College of mechanical and electrical engineering, professor, doctoral supervisor Teaching Courses: Interchangeability & technical measurement, intelligent production system modeling & simulation, modern design methods and applications Major Projects: National natural science foundation of china (NSFC) general program “lifecycle evolution and dynamic modeling methods for digital twins of complex coal mining equipment” (2023-2026), NSFC young scientists fund “integrated information modeling for product design-manufacturing convergence via digital twin” (2020-2022), Henan provincial outstanding youth fund “dynamic modeling and safety control of human-machine-environment integrated digital twin systems for fully-mechanized mining equipment” (2024-2026), Henan provincial key R&D program “key technologies and applications for virtual-physical interaction in auto-body welding lines based on digital twin” (2021-2022) Email: haoqiwang0218@zzuli.edu.cn

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导师照片	
	**Wang Yongbiao** College of Mechanical and Electrical Engineering, Associate Professor, Master Supervisor **Teaching Courses:**Mechanical drawing，Engineering drawing. **Research Field and Interests:** High throughput design and advanced forming of light alloys **Major Projects:** [1]Study of the dynamic of non-equilibrium solidification and active regulation of microstructure in high-performance Mg-Gd-Zr alloys based on macro-micro in-situ coupling of synchrotron radiation imaging and phase field simulation, 2020.01-2022.12, the National Natural Science Foundation of China, Grant No: 51901208. [2]Micro regulation and performance prediction of characteristic structure of Magnesium Castings in lightweight automobile, 2020.01-2021.12, Key scientific and technological projects in Henan Province, Grant No: 202102210016. [3]Quantitative control of solidification structure of Mg-Nd-Zn-Zr(NZK) alloy for lightweight automobile hub based on synchrotron radiation and phase field simulation, 2020.01-2021.12, Henan University Key Scientific Research Project, Grant No: 20B430020. Email: 2017031@zzuli.edu.cn

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导师照片	
	**Wang Hui** College of Mechanical and Electrical Engineering, associate professor, master supervisor Teaching Courses: Control Engineering fundamentals, Embedded System Design, Digital Signal Processing, Measurement and Control Circuit Research Field and Interests: Electromechanical system inspection, control and simulation, Servo control technology, Power electronic technique Major Projects: 1.Science and Technology Research Project of Henan Province (1321 02110057): Research on the Application of Sensorless Technology in Agricultural Machinery 2. .Science and Technology Research Project of Henan Province (172102310070): Research on Key Control Technologies of Quadrotor UAV with Disaster Monitoring Function 3. Science and Technology Research Project of Henan Province (242102220095): Research on Key Technologies of High-precision Angular Displacement Sensors for Robotic Arm Joints Email: zzuliwh@zzuli.edu.cn

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导师照片	
	**Xiao Zhiling** College of mechanical and electrical engineering, associate professor, master supervisor Teaching Courses: Mechanical Drawing Course; Research Field and Interests: Mechanical structure design and optimization; Additive manufacturing technology;Rotary excavation engineering cutting tools Major Projects:Key R&D projects in Henan Province（231111231200）. Email: xzl03223@126.com

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导师照片	
	**Fei Zhigen** College of Mechanical and Electrical Engineering, professor, master supervisor Teaching Courses: Testing technology Research Field and Interests: Machine Vision Technology and Industrial Applications, Deep Learning Theory and Industrial Applications Major Projects: (1) Research on Key Technologies of Multi-Robot Cooperative Assembly Based on Binocular Vision [222102220050], Henan Province Science and Technology Research Project. (2) Research on Key Technologies for On Machine Measurement of Multi Axis Equipment[162102410078],China Germany International Cooperation Project. Email: 20959414@qq.com