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## EDUCATION

<b>Dalian University of Technology (985)</b> 2018.09-2021.06	<b>Master</b> Vehicle Engineering Unified Entrance Ranking: <b>3/31</b>
<b>Anhui Polytechnic University</b> 2013.09-2017.06	<b>Bachelor</b> Vehicle Engineering

## PROJECT EXPERIENCE

Agile Development ASPICE Level 3 Certification (RTM Big Data Monitoring)  2022.02-Present	<b>Resp: SW Qualification Test (SWE.6)</b> <ul style="list-style-type: none"><li>➤ Write system documents for the qualification test (test specification, test strategy, test plan, test case, etc.)</li><li>➤ Set up automation test environment</li><li>➤ Write automated test scripts, execute tests and generate test reports</li><li>➤ Review</li></ul>
MEB BMS HIL test bench update  2022.02- Present	<b>Resp: Person in charge</b> <ul style="list-style-type: none"><li>➤ Prepare upgrade requirements document according to project requirements and contact with suppliers to determine quotations and plans</li><li>➤ Writing documents for CTI project declaration</li><li>➤ Write RFQ and BM order documentation</li><li>➤ Acceptance after commissioning of upgraded equipment and write acceptance report</li><li>➤ Payment</li></ul>
Carbon fiber honeycomb curved sandwich structure and its application in engine hood  2018.11-2020.09	<b>Resp: Person in charge</b> <ul style="list-style-type: none"><li>➤ The traditional steel and aluminum hoods are heavy, increase the body weight as well as fuel consumption, and cause great damage to pedestrians when traffic accident happening</li><li>➤ A new lightweight honeycomb sandwich structure engine hood is designed and optimized on the basis of traditional steel and aluminum hood</li><li>➤ Double-curved honeycomb sandwich core is investigated by mechanical analysis, and equivalent mechanical model is established</li><li>➤ A method of establishing a finite element model of the head impactor is proposed, and the head impact to hood simulation is carried out according to the 2018 C-NCAP regulations</li><li>➤ Compared with the referenced alloy engine hood, the weight of the optimal structure was reduced 66% on the condition of better stiffness and pedestrian protect performance</li></ul>

## ACADEMIC ACHIEVEMENTS

Composite Structures SCI (TOP journal)	➤ Hou W, Jiang K, et al. Study on mechanical properties of carbon fiber honeycomb curved sandwich structure and its application in engine hood[J]. Composite Structures, 2022: 115302.
Chinese Journal of Computational	➤ Wenbin Hou. Equivalent Models Research and Numerical

Mechanics	Analysis Based on Double Curved Honeycomb Sandwich Structure[J/OL]. <a href="http://kns.cnki.net/kcms/detail/21.1373.O3.20210.1625.016.html">http://kns.cnki.net/kcms/detail/21.1373.O3.20210.1625.016.html</a> .
Patent (Substantive examination stage)	➤ Wenbin Hou, Kai Jiang, Zhihua Xiong. A design method of pedestrian head impactor model[P]. Dalian University of Technology: CN1118594, 2020-10-30.
CMAME (TOP journal)	➤ Wenbin Hou, Kai Jiang, Xuefeng Zhu, Yongcheng Li, Xiangkui Zhang, Ping Hu, Extended Isogeometric Analysis with strong imposing essential boundary conditions for weak discontinuous problems using B++ splines, Computer Methods in Applied Mechanics and Engineering, Volume 370, 2020, 113135, ISSN 00-7825.

## WORKING EXPERIENCE

### MEB E-BOX FOP

<b>SAIC VOLKSWAGEN</b> (Anting, Shanghai) 2021.07- Present	<ul style="list-style-type: none"> <li>➤ Progress control of battery localization parts project</li> <li>➤ E-BOX finite element simulation (Mechanical simulation)</li> <li>➤ Component change (Aeko) approval and implementation</li> <li>➤ Off tooling sample (OTS) test report review</li> </ul>
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### MEB BMS HIL test

<b>SAIC VOLKSWAGEN</b> (Anting, Shanghai) 2021.11- Present	<ul style="list-style-type: none"> <li>➤ HIL bench equipment maintenance and management</li> <li>➤ Write test cases on the basis of requirement document</li> <li>➤ Execute test</li> <li>➤ Write test report based on the test results</li> </ul>
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### CAE simulation engineer

<b>CHINA NATIONAL HEAVY DUTY TRUCK GROUP</b> (Jinan, Shandong) 2020.07-2020.08	<ul style="list-style-type: none"> <li>➤ Structural performance analysis of the heavy-duty truck "SITRAK" cab</li> <li>➤ Evaluate the performance after finite element analysis</li> <li>➤ Structural optimization of the cab structures</li> <li>➤ Summarize of the working content and defense with PPT</li> </ul>
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## SKILLS

**Language:** CET6  
**Software:** CAD、Catia、UG-NX、HyperWorks、ABAQUS、LS-Dyna、ISIGHT、Python (Automated test programming)  
**Hardware:** HIL Test Bench

## AWARD

- Minor award in Dalian University of Technology (Three times)
- Grants in Dalian University of Technology (Three times)
- Third-prize scholarship in Anhui Polytechnic University (Once)
- The first prize of Wuhu City College Student Mathematics Competition