**Sun Mengdi**

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***Educational Background***

09/2011—06/2015: Huazhong University of Science and technology

Major: Optical Information of Science and Technology

Degree Date: 06/2015

09/2008---06/2011: The No.1 Middle School Attached to CCNU

***Research Experience***

03/2015---06/2015: Thesis for Bachelor’s degree:

The OTF and MTF detection of the projector lens

Based on the research of the ATF measurement, a testing system and method is designed, and the lens is tested by slit testing, contrast testing respectively. In order to analyze the phase information of the system, we used fitting interferogram method to measure the Optical Transfer Function(OTF) of the lens. We use CCD to obtain the required images. Matlab is used to analyze and process them. The results certificate the validity of the three methods. In the end, a research thesis is completed.

09/2015---01/2015: Research Topic:

Detection of Aspheric Surface Elements

Investigate and analyze the main parameter detection methods of aspheric surface elements. The research requires using the interference method to test the aspheric surface. Based on the aspheric surface interference experimental plan, the research is conducted through the shearing interference method. Compiling the wave-front reconstruction procedure according to the interference pattern and analyzing the accuracy and error of the testing methods. In the end, a detailed research report is completed.

***Internship Experience***

07/2014-08/2014

Huagong Laser Engineering Limited Liability Company in Wuhan

Position: Intern

Responsibilities: Learned principles and application of laser devices and skills; mastered fiber laser, carbon dioxide laser; Nd-YAG laser marking, welding, and incision.

***Honors and Awards***

02/2014 The Mathematic Contest in Modeling

***Test Scores***

08/16/2014 TOEFL:98, R:28, L:25, S:20, W:25

10/23/2013 GRE:319, V:149, Q:170, AW:3.5

***Taken Courses***

Applied Optics, Signal and System, Electrodynamics, Quantum Mechanics, Circuit Analysis, Analog Circuit, Digital Circuit, Thermodynamics, Solid State Physics, Physical Optics, Laser Principle and Application, Fiber Optics, Fourier Optics.