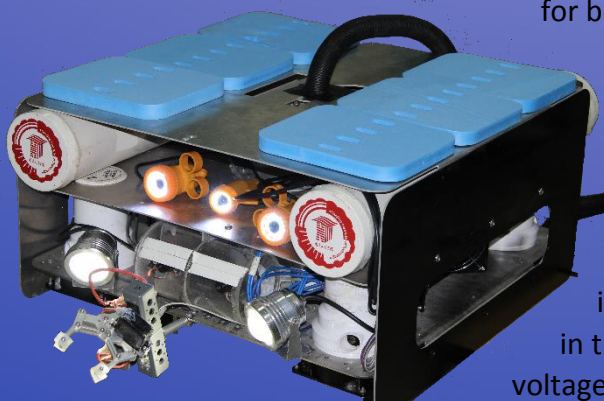


SPEC SHEET



Our company is called Deep-Sea Explorer. We are from Nanjing Institute of Technology, a famous university in Nanjing, Jiangsu Province, China. It is a really long way from Nanjing to Seattle; about 13417km. Actually, it is our first time to participate in such a large international competition like this. Our team members' grade level is very wide, ranging from freshman to senior.

Our ROV has a very inspiring name---Pioneer, whose total expense is about fifty thousand Yuan (US \$ 6250) with the size of 0.6m*0.6m*0.32m. He is mostly made of aluminum, a kind of good design materials with the properties of lightness, durability and cost efficiency, which can best meet the needs of the design. We use steel to construct the bottom of our ROV to make his gravity lower



for better self-

balance. Besides, we use

PVC as keg floats to keep Pioneer move freely. At the same time, we use acrylic at some certain places for waterproof the camera. The design of safety features are that each electric circuit includes fuses and we have warning sign in the dangerous places (such as: high voltage line and low voltage line). Our main

feature of design is self-balance. In order to meet the balanced design of the robot, the equilibrium structure design and algorithm design are its two complementary aspects. This can do greater help to make the gravity relatively stable during the completion of the tasks.

Team members

Lei Chen	---CEO(Year 3)	Pengfei Miao	---Electronic Engineer(Year 1)
Chenyu Peng	---CTO(Year 2)	Qingyong Mei	---Software Engineer(Year 4)
Bingyang Lu	---CFO(Year 1)	Haojue Luo	---Software Engineer(Year 2)
Shurong Gu	---Public Affairs Officer(Year 1)	Zhongqiang Tang	---Software Engineer(Year 2)
Tangyu Peng	---Public Affairs Officer(Year 2)	Tong Zhu	---Software Engineer(Year 3)
Junluo Shao	---Mechanical Engineer(Year 1)	Yongxue Yang	---Software Engineer(Year 4)
Ke Zhang	---Mechanical Engineer(Year 2)	Tao Chu	---Software Engineer(Year 4)
Yaming Xu	---Mechanical Engineer(Year 2)	Guangkai Ruan	---Software Engineer(Year 4)
Pengfei Liao	---Mechanical Engineer(Year 2)	Xiaochun Li	---Software Engineer(Year 4)
Hao Yang	---Mechanical Engineer(Year 2)	Xiaolei Gu	---Software Engineer(Year 4)
Yi Ping	---Mechanical Engineer(Year 2)	Kaicheng Fei	---Software Engineer(Year 4)
Yongzheng Liu	---Electronic Engineer(Year 3)	Xinchen Deng	---Software Engineer(Year 3)
Pin Zhang	---Electronic Engineer(Year 2)		

Guid teachers

Hanqi Yu	---Doctor/Pro	Wenliang Yang	---Master	Hu Feng	---Master	Hong Xu	---Master
Wei Chen	---Associate Professor	Jing Liu	---Master	Jun Zhang	---Doctor	Gui Tong	---Doctor