

NIZHNY NOVGOROD STATE TECHNICAL
UNIVERSITY NAMED AFTER
R.E. ALEKSEEV

**The Institute of Physical and
Chemical Technologies and Material
Science**

The presentation was made
by the student of M17-ЛМГР
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НИЖЕГОРОДСКИЙ ГОСУДАРСТВЕННЫЙ
ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ
им. Р. Е. Алексеева

VADER SYSTEMS

VADER



LIQUID METAL 3D PRINTING



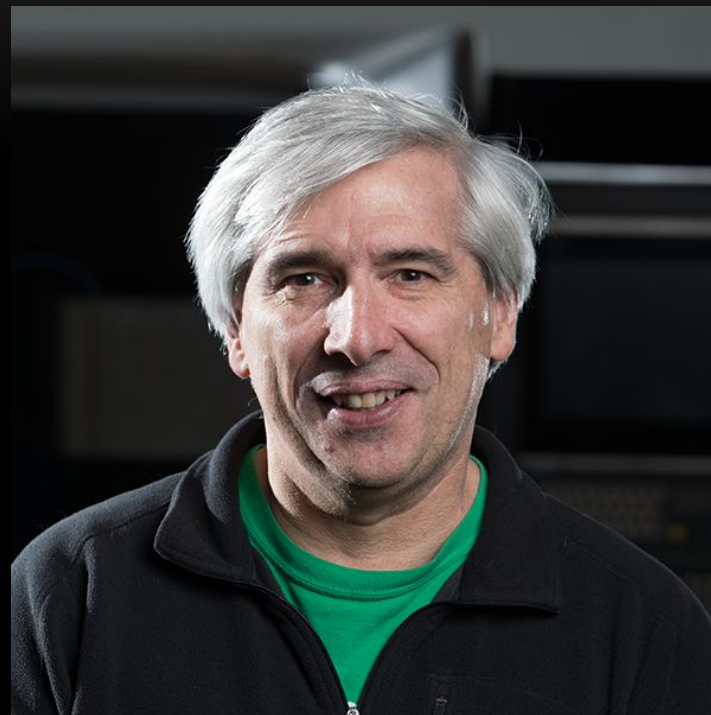
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им. Р. Е. Алексеева

WHO?



Zachary Vader

Chief Innovation Officer



Scott Vader

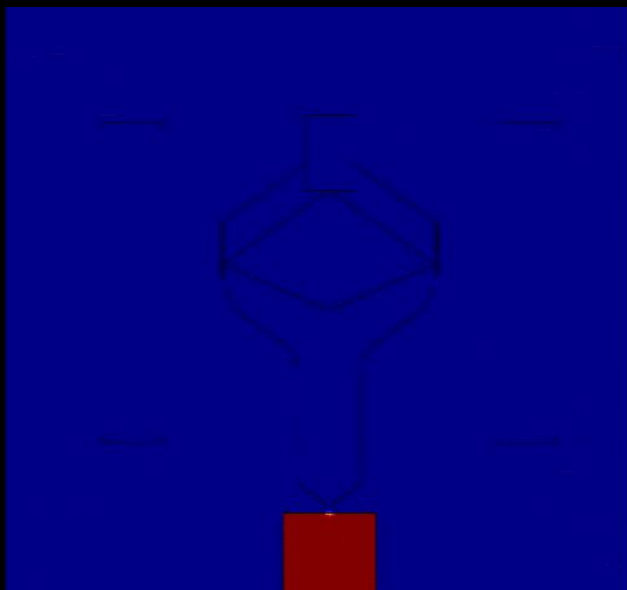
Chief Executive Officer



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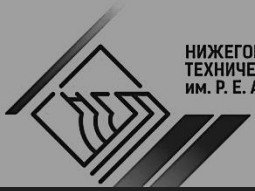
WHAT?

MagnetoJet technology



The MK1





WHAT FOR?

- to create new possibilities in high tech material construction;
- to bring affordable metal printing systems into the commercial market;
- to challenge current metal 3D printing solutions by providing an industrially powerful machine built practically and for production;
- to offer accessibility both on price and ease of use.



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HOW DOES IT WORK?





BENEFITS

high part density

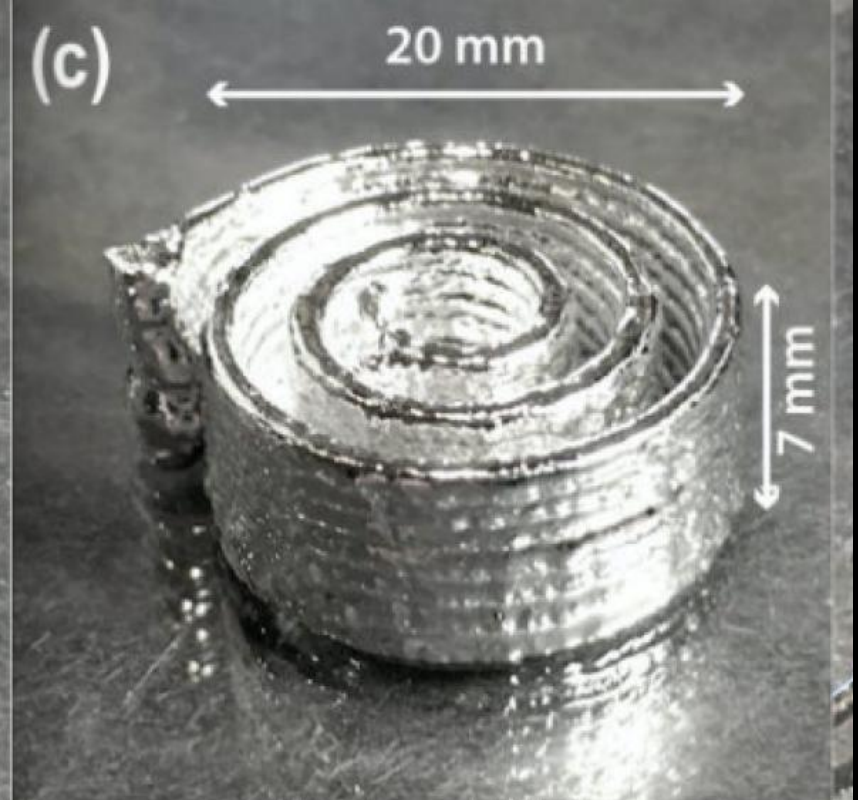
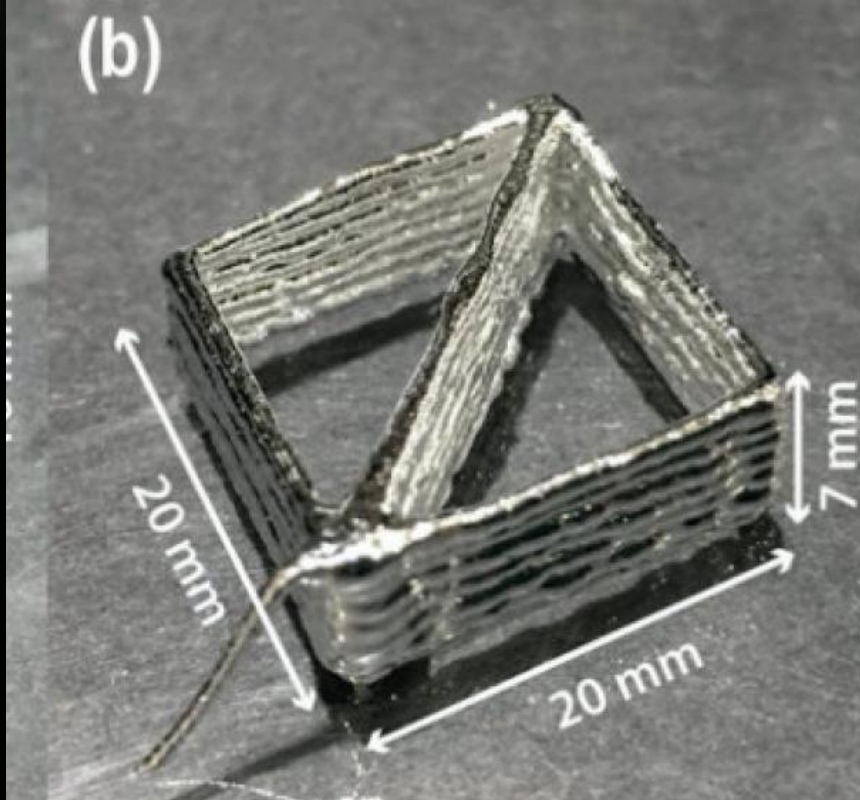
easy to use

*high speed metal
melting*

affordable price



BENEFITS





DRAWBACKS

Influence of many uncertain factors,
which impose a significant challenge to
the jetting process stability and product
quality



WHERE VADER SYSTEMS IS GOING

The next products will:

- be able to use higher temperature metals like copper, brass, and gold;
- be able to print more than 5 pounds of aluminum per hour;
 - have 10 print heads



WHERE IT MAY BE USED

- for small businesses, engineering firms and other professional makers;
 - in medicine;
- for the automotive industry;
 - and so on.



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THANKS FOR YOUR
ATTENTION