

# AutonomouStuff

*Enabling the future of autonomy*



## Your February AStuff News



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# Features

## Collaboration with University of Iowa

Enabling the future of autonomy is a phrase we live by at AutonomouStuff. A great way to do this is by teaming up with great universities, like the University of Iowa.



THE  
NATIONAL ADVANCED  
DRIVING SIMULATOR  
THE UNIVERSITY OF IOWA

“We’re working closely with the University of Iowa and HERE Technologies to build on top of our existing software stack to leverage the HERE map live database and to drive the requirements for the live data feed.” said AutonomouStuff Director of Engineering Joe Buckner in a recent press release. “We are in a unique position, working together to understand some of the requirements for the live map data feeds.”

We're proud to do our part to help university's provide the tools needed to advance the future of the industry!

[Click here](#) to read the press release in its entirety.

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# Products

## New: NovAtel Kit updates with PowerPak7

We have worked very closely with NovAtel to develop the best GNSS/INS precise positioning solutions for your autonomous vehicle research & development. We're proud to introduce updated NovAtel SPAN® GNSS/INS Positioning Kits. The ProPak6 is replaced by the new, state-of-the-art PowerPak7 SPAN enclosure with Dual-antenna and RTK/PPP capability. The PwrPak7 receivers have been paired with varying IMU models depending on your accuracy requirements as well as two GNSS-502 dual frequency low-profile antennas with magnetic roof-mounts for easy installation. This update provides improved performance, increased system resources and the new interference tool kit.



### Features of the PowerPak7:

- Increased satellite availability with 555 channel capability and all-constellation tracking
- RTK, PPP and ALIGN firmware options
- Intelligent interference detection and mitigation
- SPAN INS functionality
- SPAN INS Land profile “i” improved INS positioning during outages
- Enhanced web IU for receiver configuration

### Benefits of the PowerPak7:

- Next generation NovAtel OEM7 GNSS technology
- Supports current and future GNSS signals
- Multiple communication interfaces for easy integration and installation
- Compact, lightweight and easy to integrate
- Wide array of communications options: Ethernet, USB, Serial RS232, CAN, WiFi, I/O breakout

[Click here](#) for more information.

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## New: SmartMicro Automotive RADAR UMRR-8F & UMRR-11

We are excited to announce additions to Smartmicro's automotive RADAR line: [UMRR-8F](#) and [UMRR-11](#). Their automotive RADAR sensors are used for forward collision warning and side and rear pre-crash sensing specializes in automotive, traffic and airborne radar technology.

### UMRR-8F features include:

- Operation at the 79GHz band
- 4D/UHD
- Blind Spot Detection (BSD)
- Lane Change Assist (LCA)
- Rear and front Cross Traffic Alert (RCTA/FCTA)
- High shock and vibration levels
- Adaptive beams
- Patented high speed modulation technique
- 2xCAN V2.0b interface
- Buffered real time clock
- Angular gate specific detection
- 3D acceleration sensor

### UMRR-11 features include:

- Operation at the 24GHz band
- Small, lightweight, very robust
- Works in adverse conditions
- Short- and medium range collision warning
- Best-in-class antenna technology
- Patented high speed modulation technique
- CAN bus, 100MBit Ethernet and full duplex RS485 interface
- Buffered real time clock
- 3D attitude sensor (measures pointing angle of sensor)
- 3D acceleration sensor

Check out all of our offerings from Smartmicro [here](#).

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## New Sales Partner: Macnica

As AutonomouStuff continues to grow, we strive to continue to exceed the needs of all our amazing customers across the world. To do this, we enlist the best sales partners. We're proud to announce our newest sales partner serving Japan: Macnica.



Founded in 1972, Macnica provides services and high-value products, including semiconductor components, electronic devices, network equipment and software, primarily to Japanese and foreign electrical and electronics manufacturers who lead the information and telecommunication industry.

We are proud to add Macnica to our growing list of worldwide sales partners to better serve our 2,000+ customers across the globe. Macnica has a strong local technical support team for autonomous driving technologies. Together with Macnica, we will enable future autonomy at the fastest speed in Japan.

[Click here](#) to learn more about us and our mission to enable the future of autonomy.

## Build your own automated vehicle!

### AStuff Platform Selector Guide

Our **Platform Selector Guide** allows you to configure your own custom, fully-integrated automated research development vehicle. Choose from a variety of platforms, select your build type, add your sensor set, software selections and data storage needs to create the perfect vehicle for your R&D needs!

[Click here](#) to build your own!



# What's Happening at AStuff

## This month's favorite: Kate Baker

The AStuff family is made up of up so many amazing and talented people. This month, we'd like to introduce you to HR Associate, Kate Baker! Kate joined the team for about five months and we don't know what we'd do without her!



*"I have spent a large part of my life searching for a career that I love. I worked my way from the bottom to the top in so many different industries and still struggled to find a job I was passionate about. Coming into AutonomouStuff, I can truly say I've found my passion project. I love being a part of this team and helping to make it great in any way I can. My superiors are truly great leaders who not only talk the talk, but walk the walk. I come into work every day knowing that I will be able to contribute to this company in a way I was never able to in prior positions. People have been so accepting of who I am and I feel truly appreciated each and every day. We make one another better, which makes this company a phenomenal place to work and grow. When you create a great place to work, great work takes place." -Kate Baker*

It's employees like Kate who make AutonomouStuff such a great place. We appreciate you and all you do!!

[Click here](#) to learn more about our team.

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## We're hiring!

Are you looking for a career opportunity that offers you a chance to truly make a difference in an amazing, fast paced industry? Do you want to join a team that seems more like a family than a merely group of cohorts? If so, look no further. AutonomouStuff is seeking passionate, creative and dedicated individuals who are looking for a career like no other. Our fun, welcoming and innovative culture will give you the chance to do what you love while helping to drive the field of autonomy into the future.



If you're looking to work with the best in the field in order to reinvent the entire industry, this is the place for you.

[Click here](#) to check out available opportunities to join the fun!



# Events

## February Events

February 2018 was a fun and busy month for the AStuff team. Here are some of the great events in which we had the privilege to participate:

AStuff team members were proud to be on site as Pony.ai and Guangzhou Automobile Group (GAC) sign cooperative partnership agreement In Guangzhou's Nansha District in China.

We teamed up with our friends at Quantum and had a great time at ILMF 2018 in Denver, Colo.

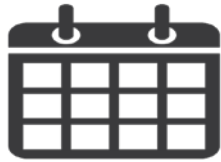
We welcomed Leadership Morton to our Morton, Ill. headquarters, where our fearless leader, Bobby Hambrick, gave the group an AStuff overview and spoke about leadership. The group also toured our facility.

Bobby also had the honor of opening for Illinois Governor Bruce Rauner at Morton Rotary's February meeting.

[Click here](#) to see where will be next.



## Upcoming events



**February 26-28, 2018**  
[Automated Vehicles SV](#)

**March 4-7**  
[Tech.AD Berlin](#)

**March 13**  
[IAPA Presidential Luncheon](#)

**March 24-26, 2018**  
[Self Racing Cars](#)

**March 26-29, 2018**  
[GTC](#)

**April 9-11, 2018**  
[ICAT](#)

**May 1-3, 2018**  
[XPONENTIAL](#)

**May 16-17, 2018**  
[SmartDrivingCars](#)

**June 6-7, 2018**  
[TU Automotive](#)

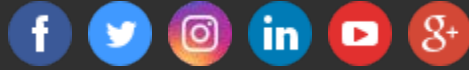
**July 10-12, 2018**  
[Automated Vehicle Symposium](#)

**July 10-12, 2018**

Semicon West

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