

...a group of sailing-enthusiastic technicians with many ideas committed to DO-IT-YOURSELF (DIY) thoughts

How we develop...

- ...with openness,
- ... participation of the later users,
- ... hardware and software openness,
- ... mutual support and with fun at cool maritime projects

Projects...

- ... DIY Plotter CM3 DIY Plotter
- ... DIY Foredeck Camera
- ... Open data formats
 - ...SignalK
 - ...OpenData / -Maps
- ... DIY Wind sensor
- ... DIY plotter software (AvNav)
- ... DIY Remote Control for Raymarine AP
- ... DIY Tiller Pilot
- ... Open Navi Software

OpenPlotter vs OpenCPN

- ... DIY multifunctional display
- ... DIY Plotter Base 10" Car Radio
- ... DIY Engine Diagnosis
- ... Node-RED Sensor integration
- ... DIY Battery Controller
- ... DIY Marine Control Server



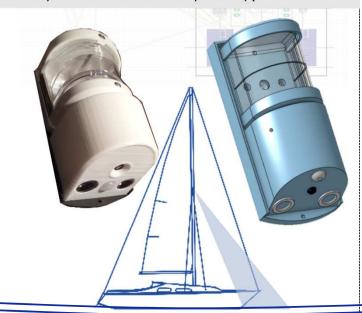
DIY Plotter_CM3

- Do-it-yourself plotter construction with professional production techniques
- Sophisticated component selection



DIY Foredeck camera

- Project start 06/2019
- Distance camera, deck lighting & motion detector
- Incl. spring sensor (°C/hPa/rel.F.)
- Only 5 months to the prototype



Free sea charts / OpenData

- Since 2009 free nautical chart project
- OpenSeaMap as part of the OpenStreet Map project (since 2004)
- 2.3 million users (2015)

SignalK 🅖



- New and open data format for the exchange of maritime data
- Developed by sailors for sailors
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DIY Windsor

- Own production by means of 3D printing
- Wireless data transmission
- Display on tablet/mobile phone
- Costs from approx. 125 EUR



- From Andreas Vogel www.Wellenvogel.net
- Fast navigation software for the Rasperry Pi® with access for tablets & mobile phones on board
- NMEA Protocols & Multiplexer









- For AP with Seatalk protocol
- For reproduction on Arduino basis
- optional OLED display for wind indication
- Costs: approx. 35 EUR

DIY Tiller Pilot

- Project start: 2018
- further DIY autopilot projects (e.g. pyPilot,)
- 2018 first test series for the position sensor

OpenPlotter & OpenCPN

- Program collection OpenPlotter
- free navigation software OpenCPN
- Runnable e.g. on Rasperry Pi®







DIY multifunctional display

- MD5Stack® Application for NMEA2000
- 3 versions
 - Wireless with OpenPlotter
 - Wireless with ESP32 WiFi Gateway
 - Directly on the CAN bus
- Easily configurable
- Easy to expand
- Costs approx. 50 EUR



DIY Android Plotter

- Base 2 DIN car radio
- Android 9
- Bluetooth, WLAN
- 4 channel audio
- Touch-capable 7" device
- Costs: approx. 60-200 EUR

DIY engine diagnosis

- Retrofitting for all engine types
- Measurements
 - Cooling water flow rate
 - Temperature cooling circuits
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- Early alarm in case of problems to avoid engine damage



Node-RED Sensor integration

- Free programming environment
- Visual programming for beginners
- Attractive visualization DIY









Further information

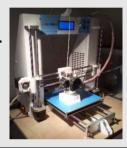
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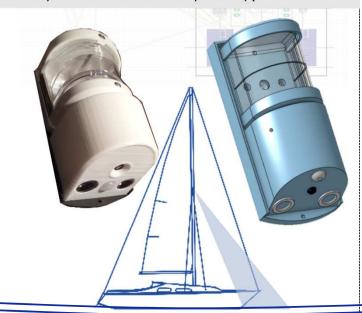
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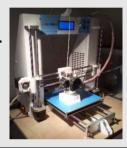
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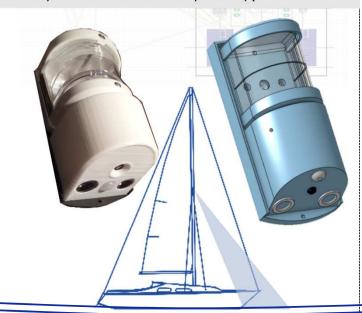
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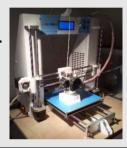
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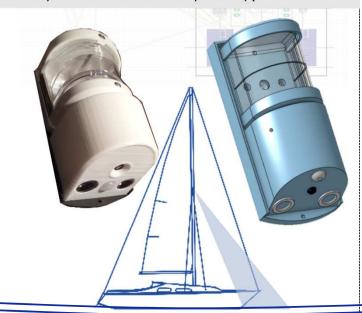
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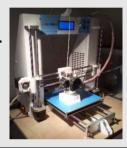
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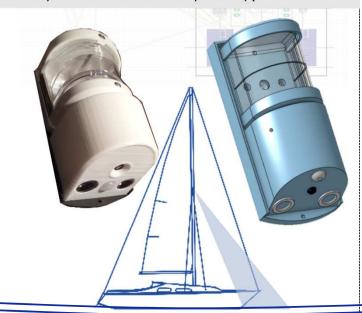
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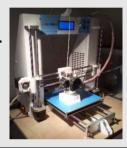
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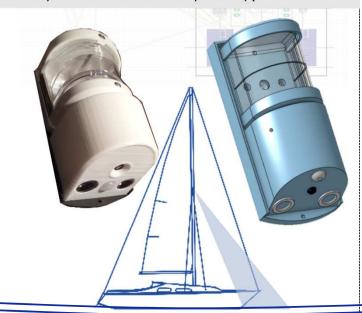
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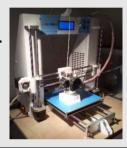
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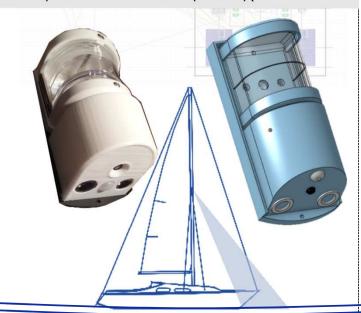
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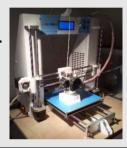
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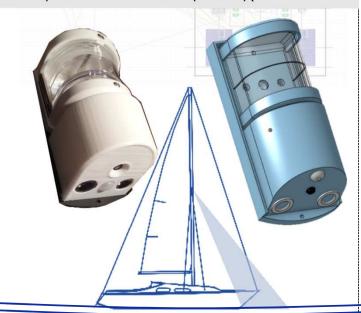
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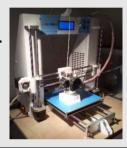
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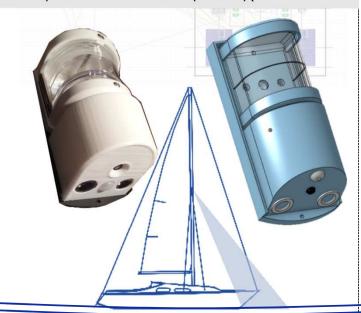
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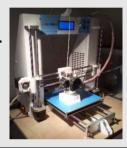
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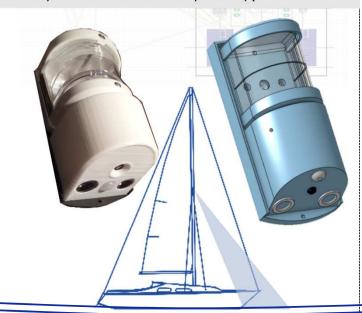
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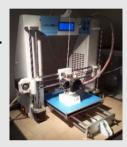
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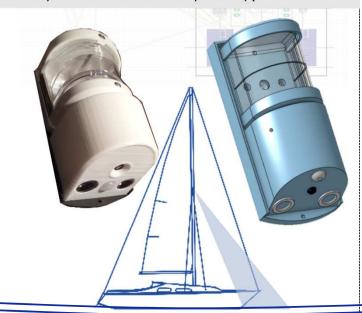
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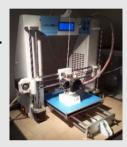
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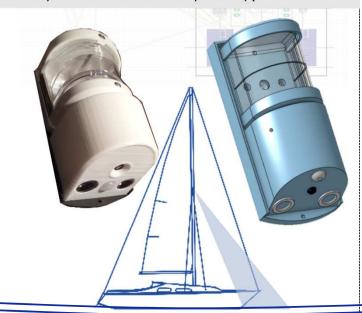
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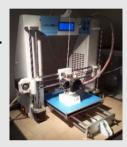
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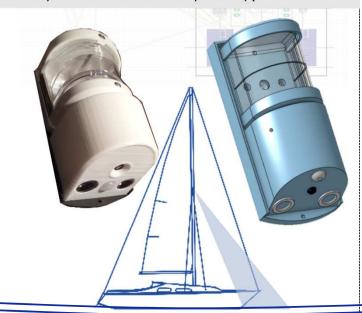
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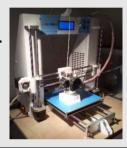
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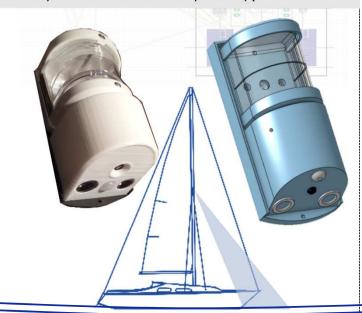
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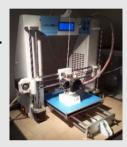
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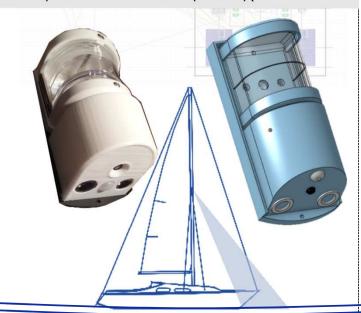
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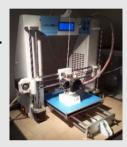
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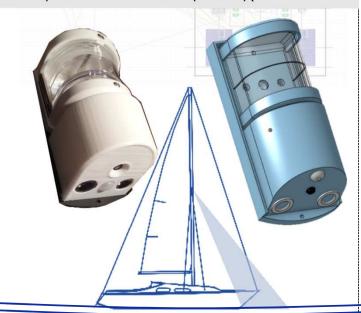
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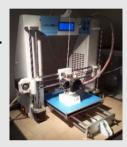
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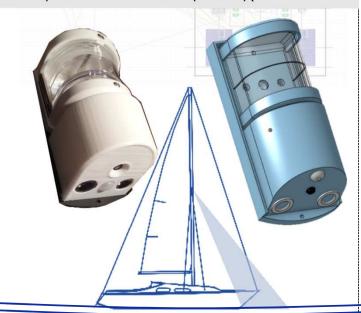
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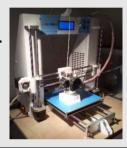
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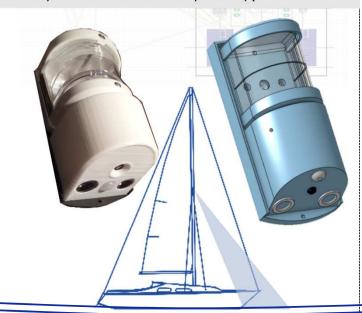
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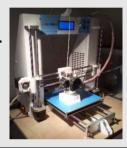
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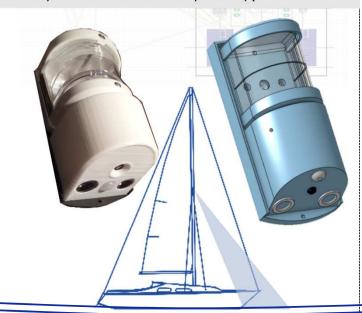
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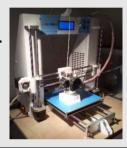
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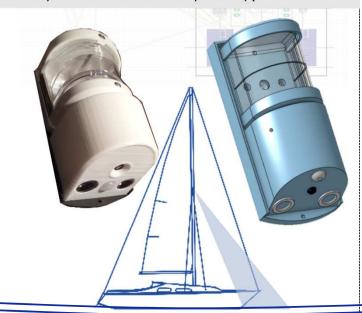
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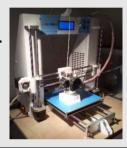
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