



ABER SAILBOT

abersailbot.co.uk

Thanks for Listening!

Tell us when you're available:
<https://tinyurl.com/abersailbot-times>

Join our mailing list and Slack:
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sailbot@aber.ac.uk

The Team



What do we do?



- Build Autonomous Robotic Sailing Boats
- Write code
- Compete



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[@abersailbot](https://twitter.com/abersailbot)

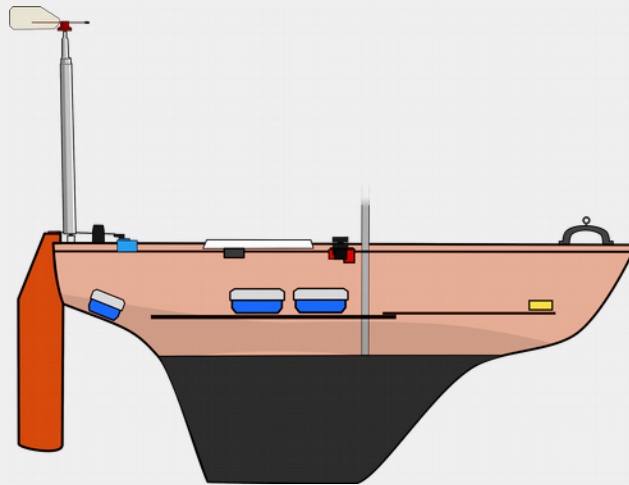


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The Boats



Dewi'r Ddraig



Kitty



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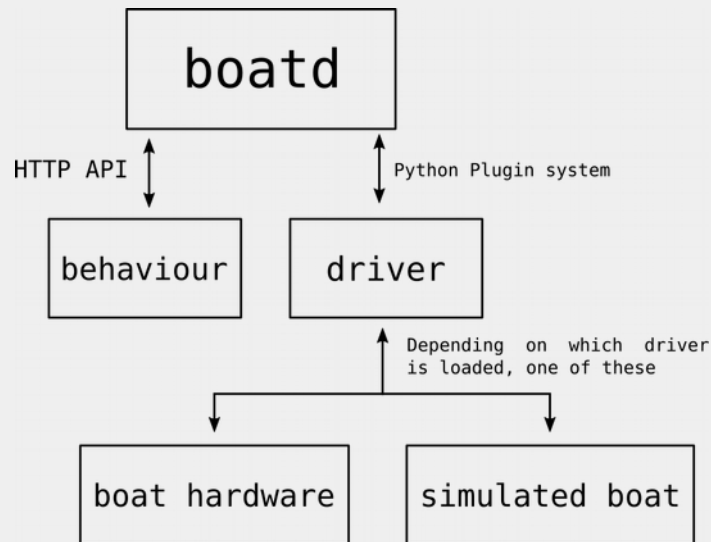
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Software

- Robotic Sailing Boat Daemon
- Independent behaviours
- Boat specific drivers



<https://github.com/abersailbot>



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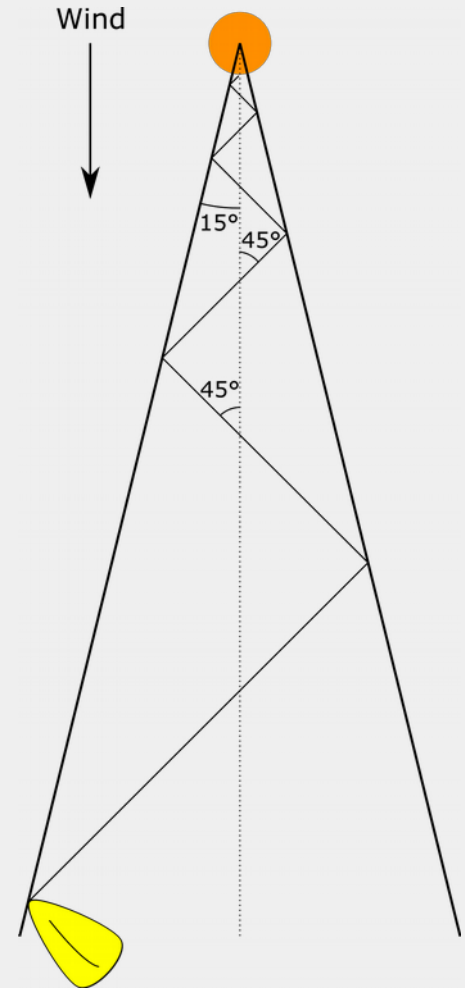
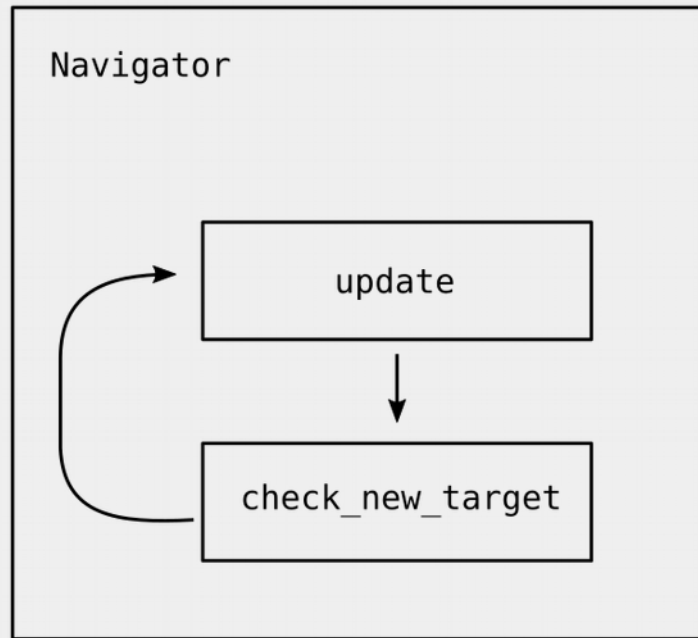


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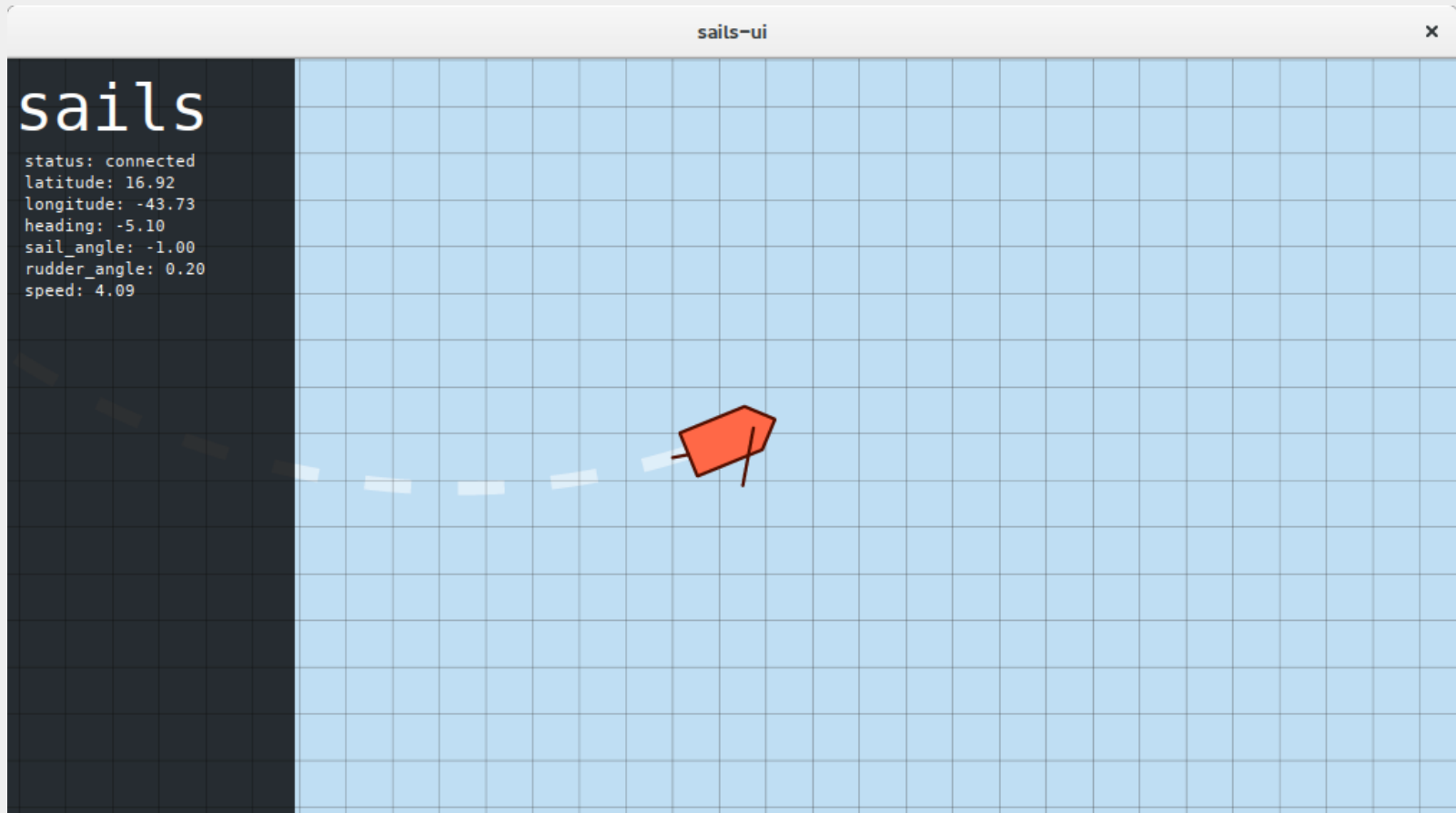


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Behaviour



Simulation



<https://github.com/sails-simulator>



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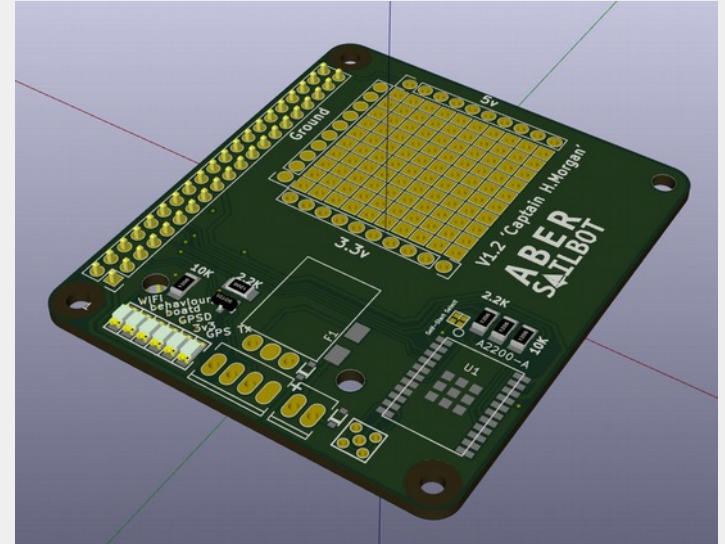
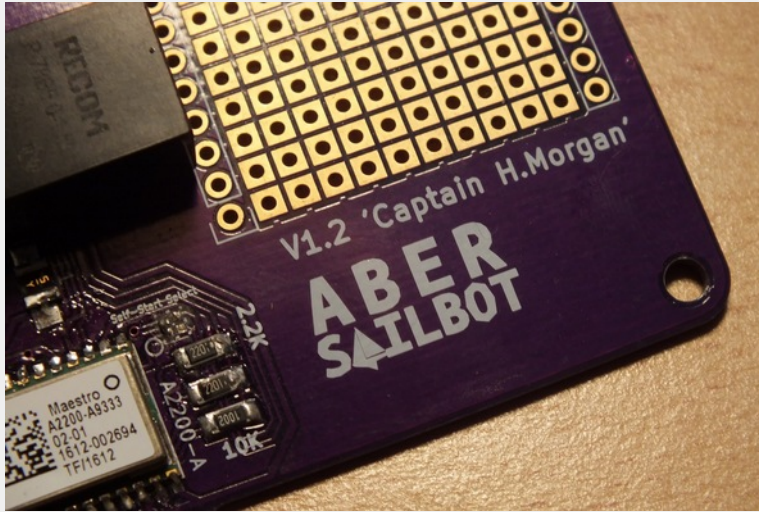


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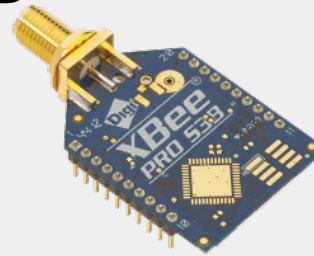


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Electronics



- RaspberryPi and Arduino
- Captain Morgan PCB
- Wind Sensor
- Compass



Transport



Competitions - Sailbot

SailBot

- Student focused
- Emphasis on boat design
- Usually in USA or Canada
- June 7th-12 2020:
 - Amesbury, (near Boston)
 - Massachusetts, USA



Competitions - WRSC

World Robotic Sailing Championships

- More research focused
- Emphasis on autonomy
 - Collision Avoidance
 - Station Keeping
 - Area scanning
- We might host 2020



Competitions - Robosail

RoboSail

- RC Laser Hulls
- Everyone uses same boat
- Åland Islands, Finland sometime in May



Competitions – Marine Autonomy Challenge

- Motorboat Competition
- Sponsored by L3 ASV
- Open to UK Universities
- Locate “litter” in the water
- Teams given hull and motors
- Was supposed to be August last year, cancelled in June



Plan for this year

- RC laser competition – Mid November
- Weekly theoretical/skills sessions
- Fix Kitty, Improve Dewi
- New boat?
- Visit Coventry Uni, go to a Raspberry Jam
- Go to all the competitions: RoboSail, Sailbot, MAChallenge, WRSC

Mini RC Laser competition



- Teams of 4 or 5 people
- Polystyrene RC laser hull
 - Raspberry Pi computer
 - Captain Morgan board
 - Standard AberSailbot software
- Race November 16th/17th

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