

VANTEC -Roboboat

Computer vision team



Structure



- Robonation
- Computer vision in robo-boat.
- Vantec

Robonation

- Robotics community looking to educate society in unmanned vehicle systems.
- Academic participation through competitions and programs



link: https://www.youtube.com/watch?v=TW5qUuJR_F4

Competitions



Competition: Robo-boat



Link: https://www.youtube.com/watch?v=4Ov_tMdPWsE

Challenges (2017)

- pin

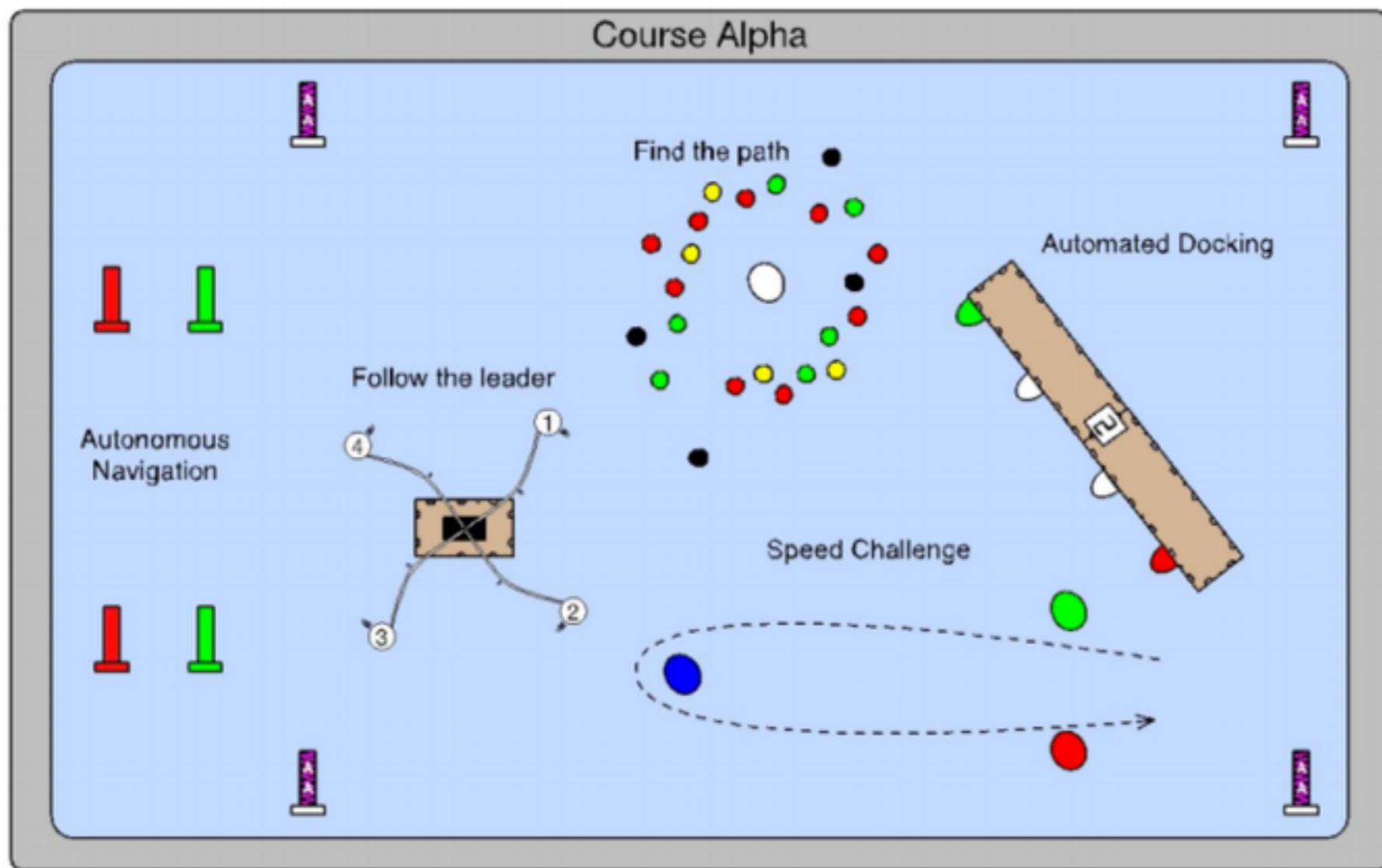
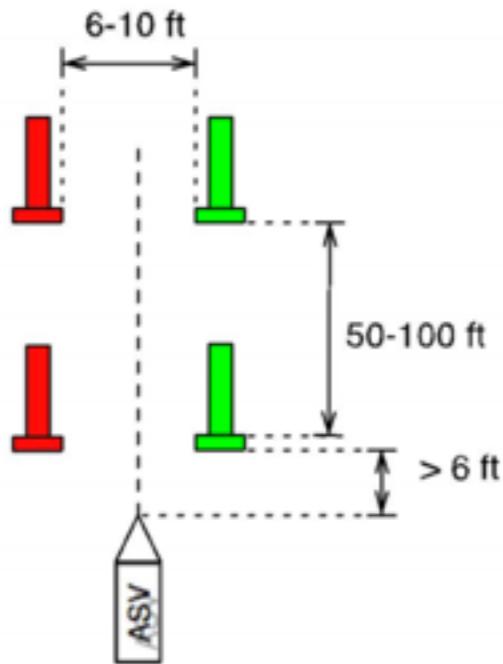


Figure 2. Course layout

Autonomous Navigation



Speed Challenge

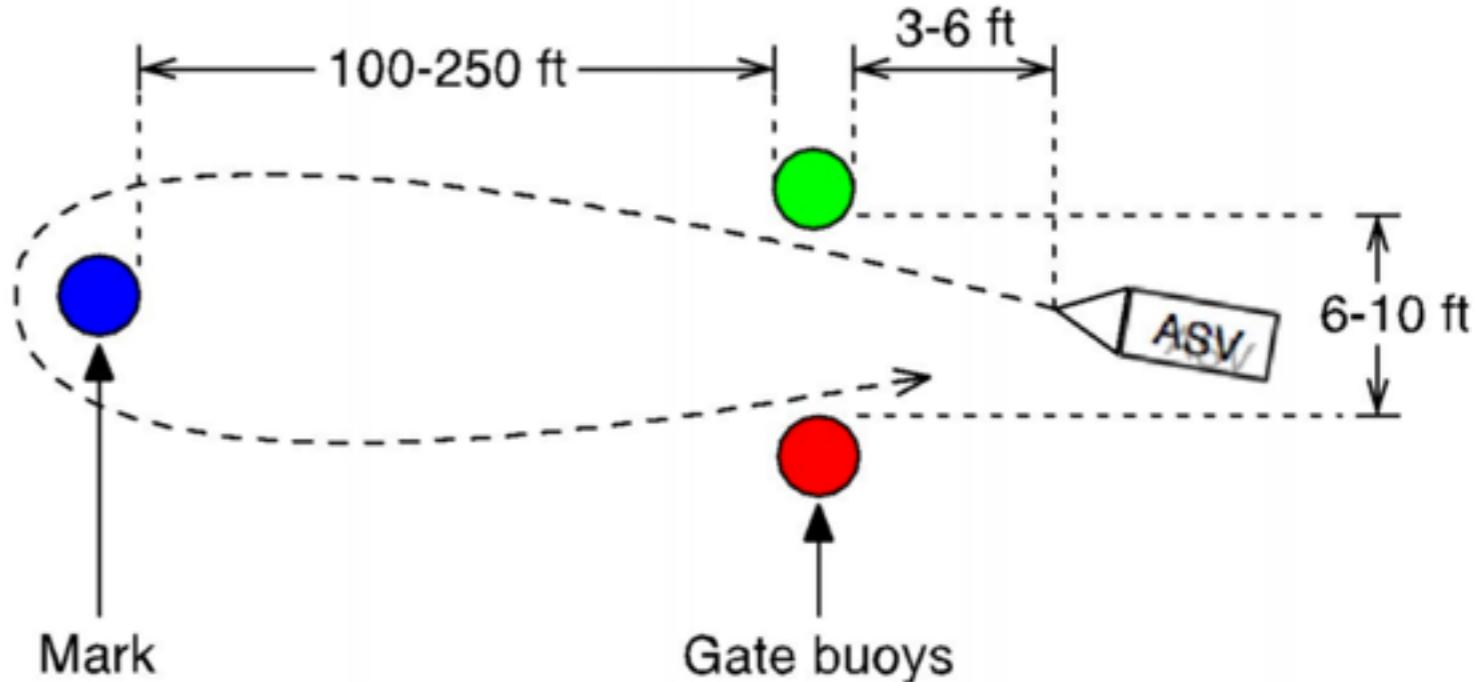
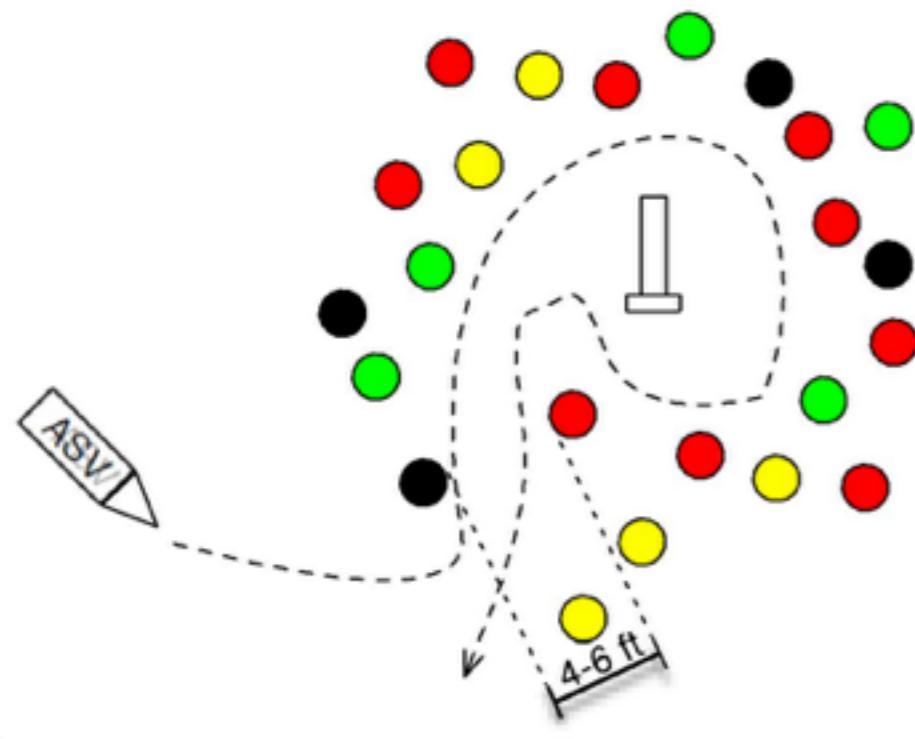


Figure 6. Obstacle avoidance overview.

Find the path



Follow - Aerial View

Follow - Front View

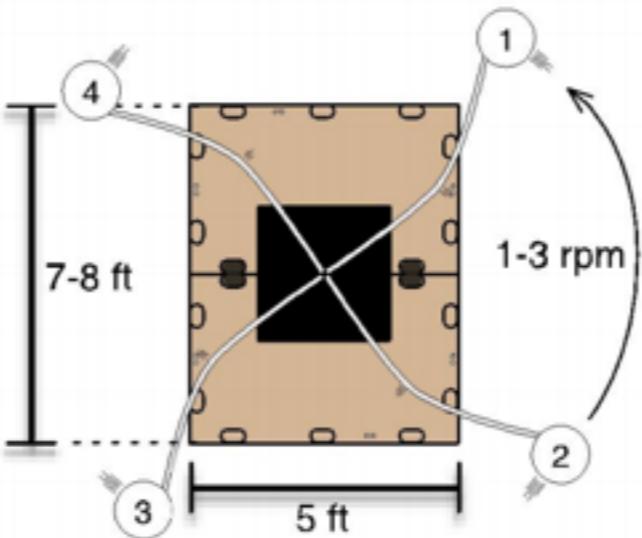
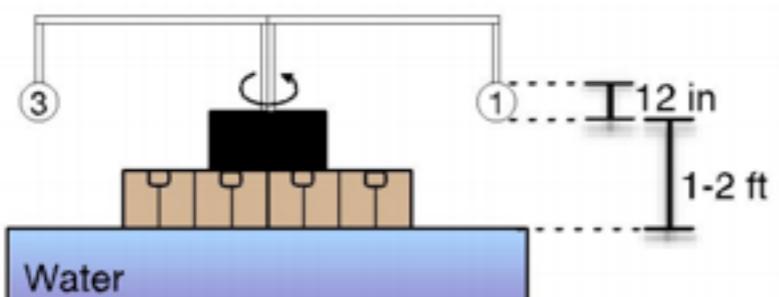


Figure 9. Follow the Leader overview

Docking - Aerial View

Docking - Front View

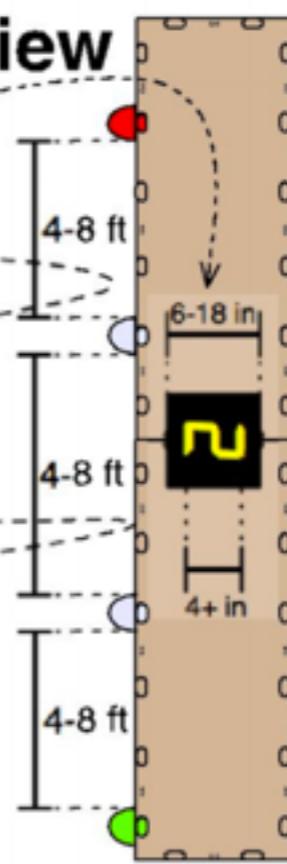
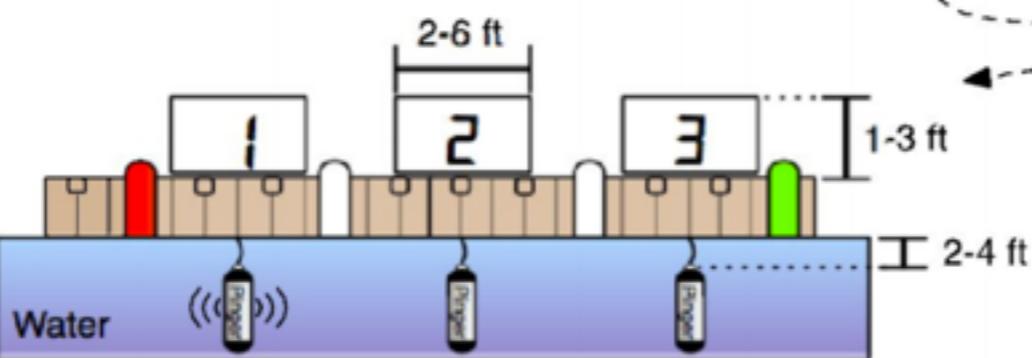


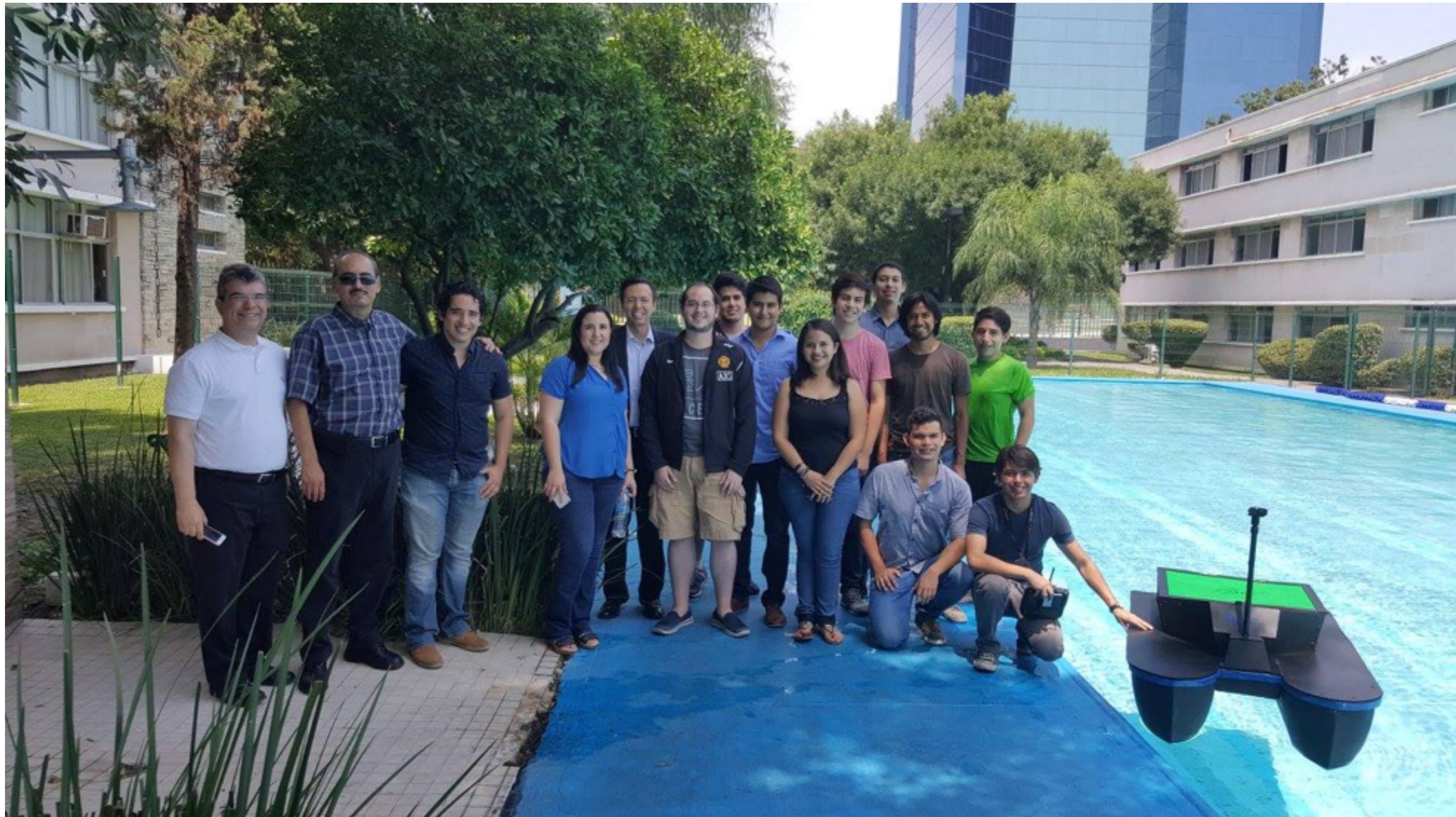
Figure 7. Automated Docking overview.

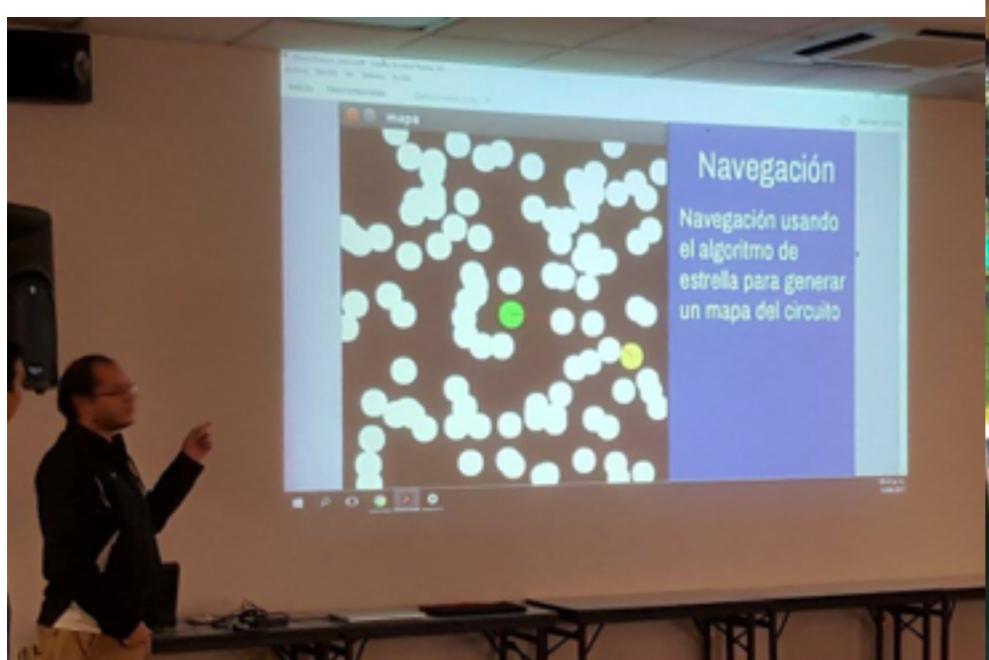
Computer vision in robo-boat

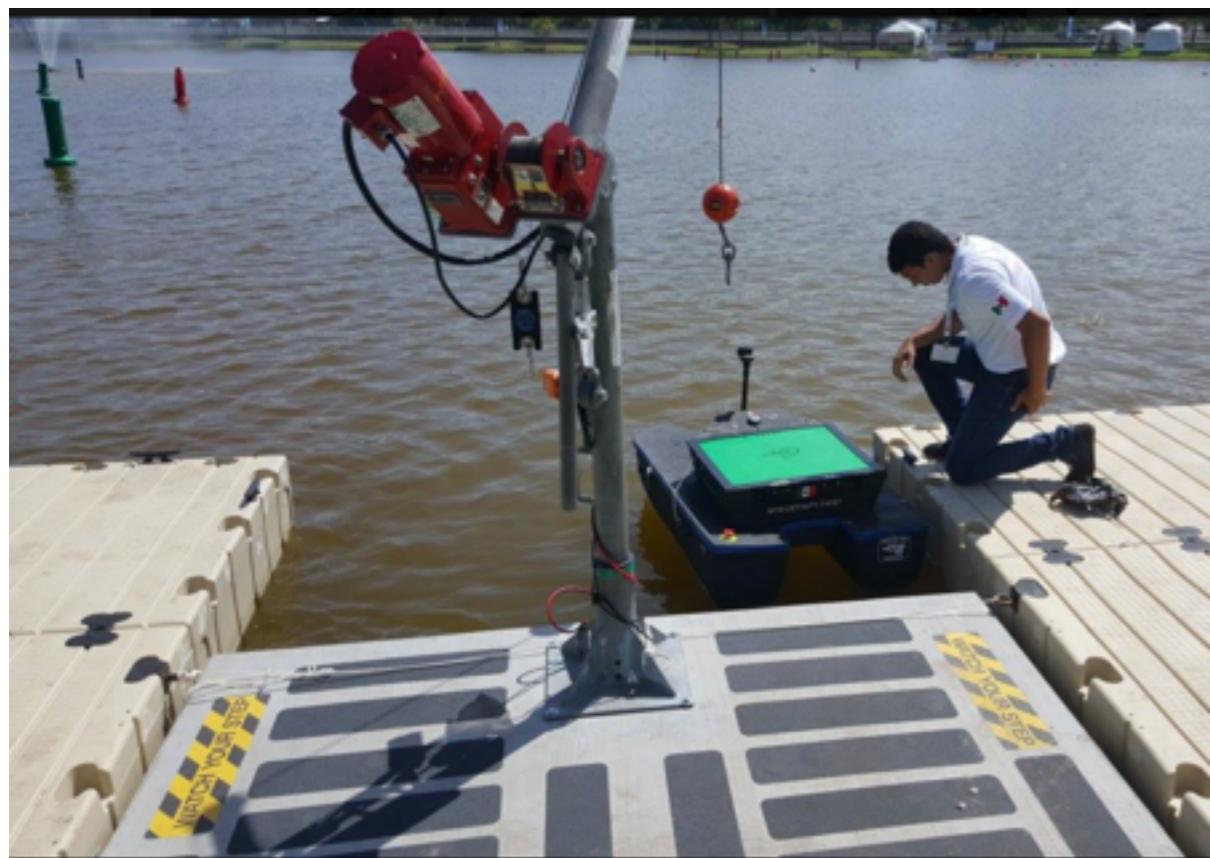


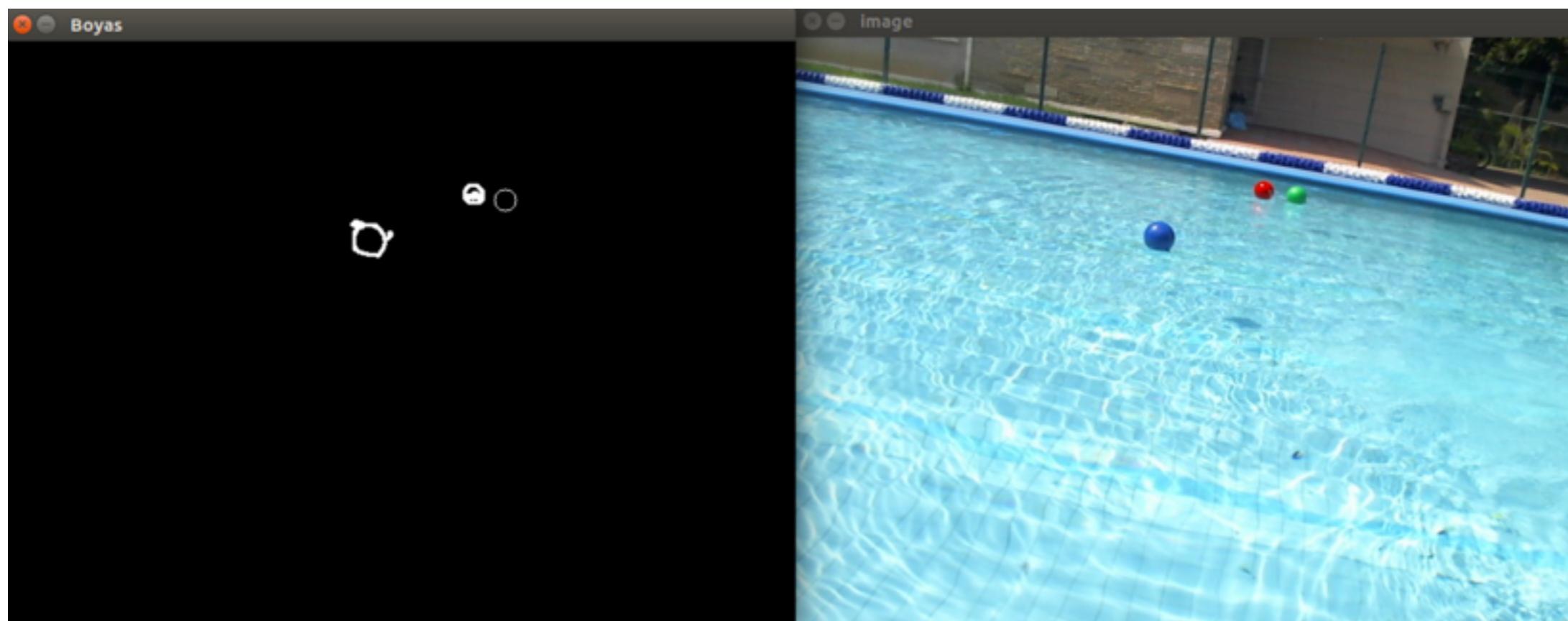
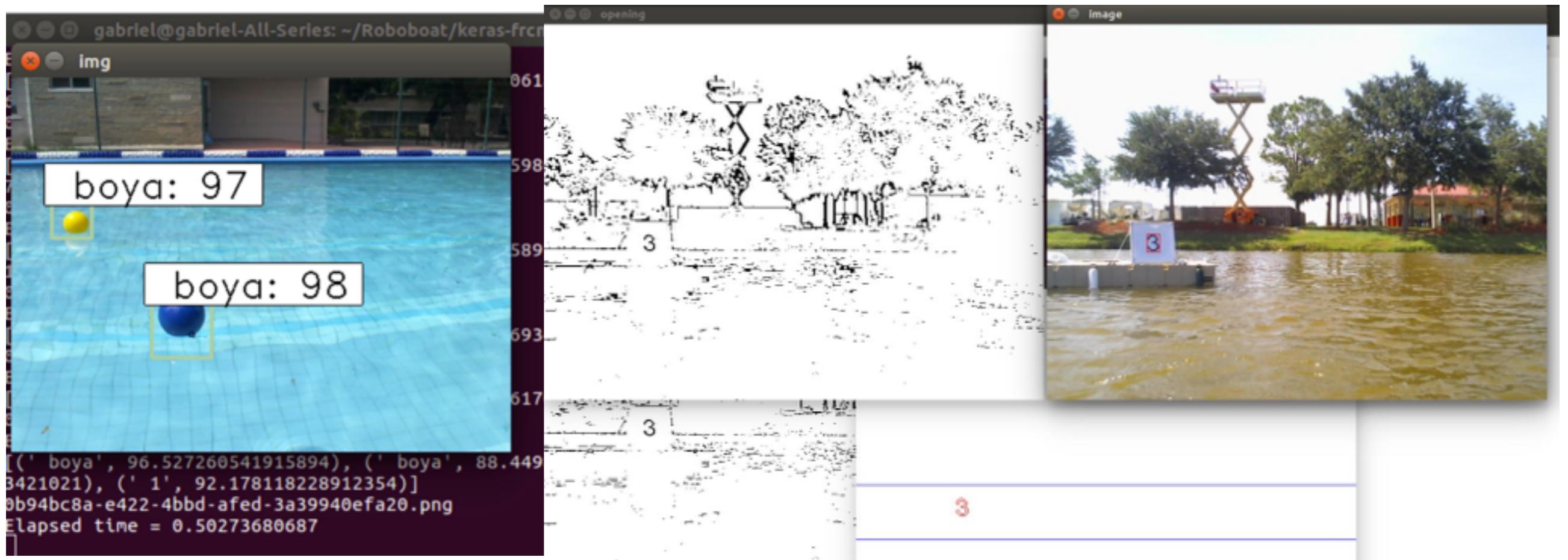
Link: <https://www.youtube.com/watch?v=fAYEVduLsGI>

ITESM in Roboboat

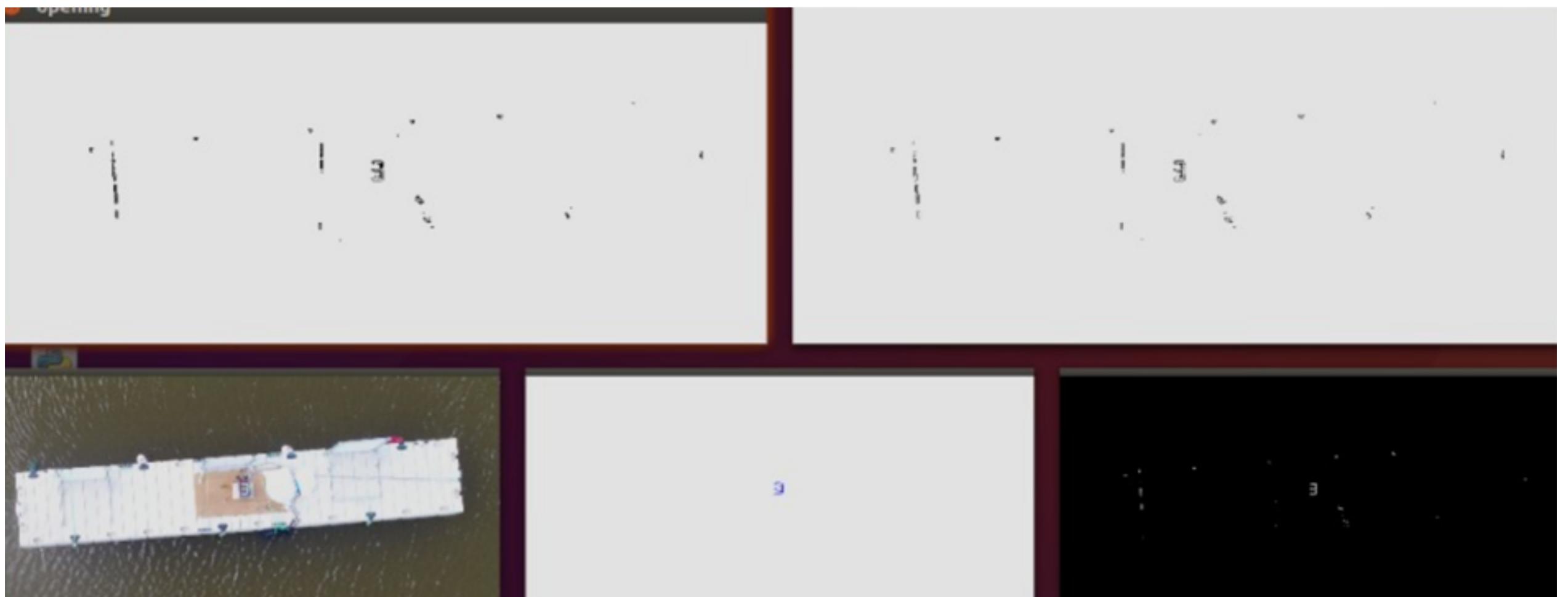








Ref: Gabriel Gonzales Sahagún



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Unete a vantTEC

Equipo de vehículos autónomos no tripulados

ISD IMT ITE ITC LAD LDI

Ganadores del premio
especial "DRONE"
en RoboBoat 2017

Competencia anual
Internacional
de Vehículos acuáticos

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www.auvsifoundation.org/competition/roboboat



References

- [http://www.robonation.org/sites/default/files/
RoboBoat2017FinalRules.pdf](http://www.robonation.org/sites/default/files/RoboBoat2017FinalRules.pdf)

Registro:

<https://goo.gl/forms/B1kl5ROsB6OndKK02>