

Budget Analog Synthesizer

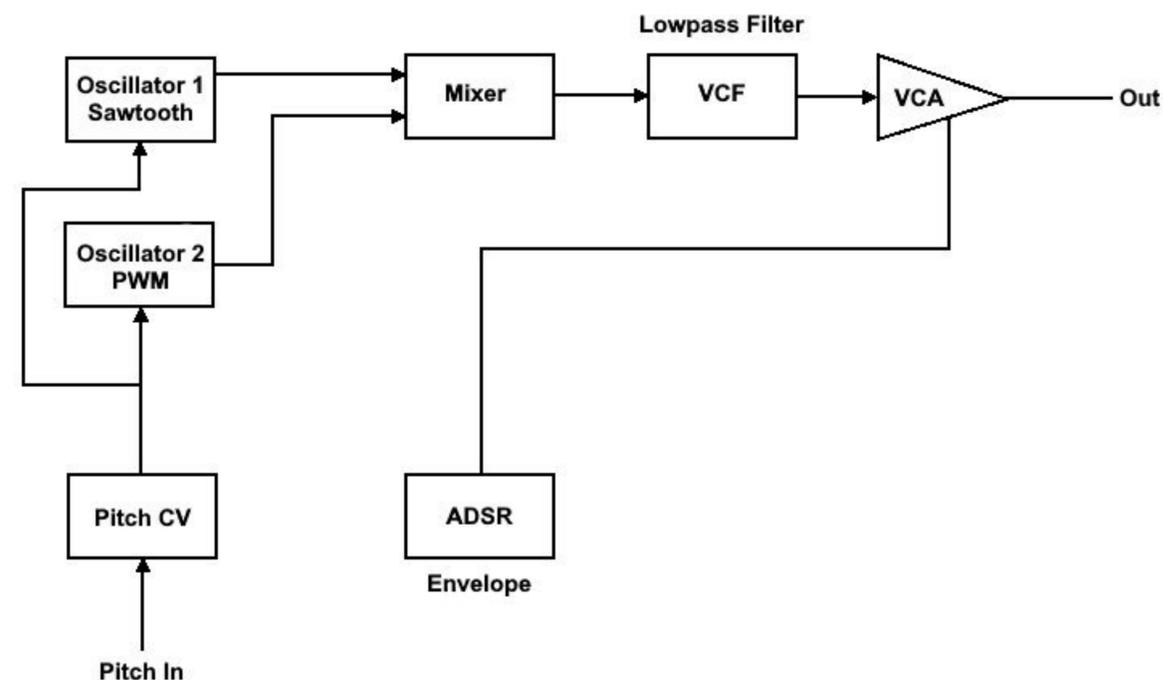
Project

Many current day analog synthesizers are either too expensive or have very limited functionality.

- Our group made a goal to create a low-cost analog synthesizer.
- This is critical for first time synth users and those wanting to become acquainted with analog equipment.



System



Methods

- The first step was to layout what modules would be needed to make a synthesizer.
- The second step was to design these modules. Simulations were created and components were chosen.
- The third step was to build our designed modules.
- The fourth step was to test and verify that our modules were working as planned.
- The fifth step was to assemble all modules into a working synthesizer.

Conclusion

Materials cost much more when not buying in bulk. A cost efficient analog synthesizer is possible but would need to be mass-produced in order to be viable.

- Talking with part manufacturers would allow for a greater clarity on price and could greatly impact the possible price for a synthesizer unit.
- Overall, we are happy with the results as they indicate that our project is feasible.
- This project strengthened our knowledge of circuitry, synthesizers, and product creation.
- In the future we would like to work on adding an internal power source, a keyboard interface, and an aluminum casing.