**Prototyp.**

Prace nad prototypem rozpoczęliśmy od poszukiwania kosza, który spełniłby nasze wymagania:

1. Posiadanie klapki.
2. Otwieranie przy pomocy przycisku.
3. Wykonanie z trwałego i przystępnego w obróbce materiału.

Udało nam się zdobyć kosz, który spełniał te trzy założenia. Kolejnym krokiem było zaplanowanie w jaki sposób umieścimy w naszym urządzeniu elementy elektroniczne.

**![Obraz zawierający czerwony, podłoże, zewnętrzne, siedzi

Opis wygenerowany automatycznie](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4T5iRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjAxOjI3IDIyOjQ5OjE4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0OAAAkpIAAgAAAAM0OAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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3W9nqGu+Kb/ULwXiaclvGtvaXsEawIQXJbHLbsYHrxWRfa5pOvWptLGW8l1BcvBawW7wqXVWBUE7QRnnk1tyWId5K58933h7xT4P8AH8+uWnhBLa1uYYmuobWVgtyUwSQGbt7jPFemH4T2PxEm0nxFqTXNrb2qsF0a8KNE6kqSWVc5wT3Ga7r4UeB9et9GujrqWi3ZOYbdgZJrYnhiz7zuBP4Ve+I2saP4ZhsJ9Q8q0+0XBgkkkzhDgZwMdz60RppLUho57V5Psdq48I+CdB12yik2Ssl6lv5cwAVtwAyGGOeO1dxYy3semv5kMUUs8Py29q5bDkdA46jkjNWtD0nS/sch0YWr28xLTzWYjXfIeu7A5P1pbe+GmxyQ2sLSSvIEIRxgLkZAB4HXtW0YroI830/UtesfHEXh7VNGa50e4tGke8k3ShJM8xlmzwPTpWP478E6dpXiDT38JXUXhHUlLRhodMEltdRsoLLIoIGcAgMea9L8EeDb/StVkuLq/vrqF92y3vp5ZiMncW+9tA5446V2PiTS/t2jyiGA3hKY8vaCGPTH5U+Xm3Hqtjybwn4D0zU3h1Cx1LVNPvrWVVMMkjqJGVcHCyEgr1Ix60vjv4c2vjDRbmz1zXNRu4UlV/LtrnyxGFHfHXmu4tdHGmxWgWWS3ZM5V23PuxjOTTvDes6NfSMiXZu7xXkt5WjYhvNjyGVl7YJ/Sq5Vawjx7wv4b8NaXZQWmn6kdRtZy8VpazJiVHKglWbGelbfj3wXqNrBbapot3a6Td2pidXuLcSmNDgMrZIyO9epa1HoeiRxXS2Vxd3Ct5qpHHvcEcbhnviuQ8VWuuav9nfTla9tkGJIN0YY7uquCOCB+VZuCSA5vxl4l13wDodjLN4dh8US3FxGhuLQdejMVReQMg8Z4rgPiLrnjDxTrWnjQdB0631O0mW7Wz1Cyk/dxOpSRZT3ycZ9xXrlv4h8RWUwhewkt7lgFhW7ZjGiBW3EuB17V2NnHc6dpsV5q1vbGcxqslwrlmOedqnuAanl5hox9D+H2g3Hh4WaQWFtclALiz05zHCZAOQqjHGc9ecVz19JpGn+JdOn1KW8j1C28z7NbK5KxMARw3HUMOCa3/HV1qs2oW2meC20ePVfL+0PJqaO48snBI2HIOa4PxveePvCPguWe80Sx8T38WE+z2AeOR2ZuWUnlQFGPXiq0Roauv6X4W8RXl7ENQK6qYh5skUCiSJiTtJK9SPTNZng/wCHNhpl2L6DVIdZuJpS1/NOzqsuScDh8KV9CPao/h14w8K6vps81p4b1DR777MJrjT9splYncwBYn5yAe/pXX2vg7w/eWl3qB0vULf7RbgyW7y+WJFAypdBznn61CjdXB26Fi88O6B9u0rW9Ogaa8tZJHiWxlUC4LKwKkHGRkcDpWLdeN9b0/T4dd1Hw7rcU0dxJ5Wl2MisHi3kIzqW67cEgVU8B+C7jwzqFksFho+laG0Z8mBrq4kuHlLgiTc3Cnk/L7mux/4TTWLaO5gu9GWOcHbBJas8omHoFC9QOoPetEWnoZ/hP4gJql1qa3s0lvH526K21WLy3UEqoVflw3PTk1f1HxDLaSX/ANqu7donG1bcNGnkEA5XOO/bNUda8F2PxE8Nw2qyx6fqVwv2i13RFXjlUjJPHByD9K5zxD8F9Q0vSJ57LX4dNnvmEl/NcQ+bNK2ACq98ZzUyDWxwXgnw5f8Ah7Vrq68MWYis9UYvcveXP76W4L5y8gHKj5z1I4rtdUuvFqfY/sGkaZqc9qAbmORwDIm3gxtjnNdPpPgG3tBBp8GqvLbQoBPI0TLvABHy46dW4HTJrt9J0XRoLGGOyRJRGhEAussQV+UcH6URg0i492eDav8AHKaztdPa/wDDvijTNSZUS5s4NEkmt1bPJWYcdQcU3UvibHqeq6fdWPhqa+gkjE8MV1bPbMG2E/KrLgnJ5PtXtni7w1YeME0/c7FbKWO4aG3ZQrNjjcPTvWlPoOnR26yR6bbzX0aGJZJkXIXGcBsZx/jTUWJnmniLwj4l8aafMNHuNE8NXVzCN97NavPLA5UDKEMq7h0DVt+BvhvceB/COn6ZqWvza9rEayPNqM5Ie4yxZmIJOPoSfSu2j8Lx6lauJ7aGOOQowCykkMBnj05ps2kf2bvEt+JDMSsUUgBY+2e4qlFXuVfSx5T4y+IEVrpoj0TTrzWb2bcv2dY2hUDGSSzLtAGa4SP4W3XjGzY6nqEn9rxwoIrSJndIV443qSG/AV75qHh2xhjgRdJlu5LqT95JAuEtxjO44Yce1XNJ1GHw/Ys85M0rZIitbQqevUDJJBpcrbEfOEvgLUvBHjSwu7m3upEsjGsbWjoGkUn5i6OhJGR1Fe2eXLqOnfbNObyHEJeJJ923IPQ456e1b+peNIv7StrdoDDdTQ+YUuIdh2+5P3SPSoLjWtZ1azcabHbsIwFWWVsB/wDaoSsIxlkmvtLc3MNreXEYDeSxYD/aUDb0we9SR33kRrp8Vvun2LsXOSuT0PrxU+i6Pqa2eoy69c2tyzsZVWAfcTPQn1rE/tTTzr1v/Zlqi6pMrBZJnG0BCo3bSc+vIxQBvWdnqdtKDdzNdQrgIoiyQD6nvVLWo5rKymaGXLR/vHmkZcooPQCr1vquoXVmjhPt1q5wZrQIhG3gjk5HNZ66HeXlxPPLbR2se/Ywf723qRn0+nFAHmHj3xp4nvp9P/sBZryykkU3LNboRtbqygivW/Dd9canZtcWikqwXAmOXzjJyvb6Crem2FwtxHJHbW9xZooUDysOh9M+laj22+QOBFAUO8gybBwMfdzyKlJos5W41C8s4ftMh2SMfLaOS3YFQN2TkdaYkccUyAXKtD5RYL5LAEHkDJ6VH4ivtRuIXlsby1ka2KySww2vnFwRk/TriuKn1/xT4klkh0uKOyuIgCTqgZJNrRsxYLtxgHjGTzUuVgNjWrixW/to9RtLpGuJA0V9bRPMijGCuQPlB71ptdS+HlFvpGkzXLzOSwWNkPPcEqBXzZot5+0BcfE7Tb2Dw8qeGo447a5aG6haOVBIWLhXf5XboWxnHFfXOgz6zfRxNeafJpeTmSGZ43JPfBVjn61nGXNsaWsZsup6nerBH/Y9xbsrDzJJpEXA/Bif0rG8RaPPJC15ZX0lmiApLHZru+YnknFehXmnKN0qs0fG0jGfpmuZvb59PWS3FzBAsY3l3PJYn5SRtHXB7035lBJ4fttekeTTPFF29usAg8u2kWWOWMq5GwjoRgYPWobjwTpv2VJTMbWWKIRxS3Cr+7UcYCHI6e1Yvg74aHwncQ263FzY3LDDJYApbZUELlT8oIB7CtKy+EOn2ur/AG+31fUJr77szXFxujkB54Tpn3rS3kcGpV8ff2lDaSQ2+uzTJMixxy2tqoZG/vZzj8q8u8GfCfXLXxhNquueL9U1WK2zjT0Ty45FPIBXOD2r1rWtW8T2GtWtrb6Tbro6TxRi7muxvlB4f5Qv8OK6ddB0jUEvLhrkTTTLxJuDsB2wpHWly8zFY+O/i98TJLjx3P4ftU1Ozht0RE00QBcyAk+YpXOeawPh38ZPFvhb+3YtdtriO0t4LjUZrvUPMQyYYERe/QgV9h2mk6V4ZYzjSyJHfZ9tuFjSRySozkDPr19a39Q8POxJsbK3ngnIEy3GDG6AZ5HQ/wD165/YS5r8x2KrHls4nkHw0+N2g/EHR3u7S/TSrCJgAdUhkNxgkkgM3G3sD1xXTeE/F2kamt9Doi2s7Blm8qzJEjZbqduOMevWuf8Aib8JLT4z21nFqt/r2k2djvmms9MZVik2n7oG0k+1anwP+GOi+CNHv73QrTUoGvnPGoxj7SVUYQHcOldcea9mcsl1R6Vca3o+saPLAl9HGQCk0bO0UgwccA8469Kb4Z8O2Gn2Ur6bFC64DBopTkZ9d3U89TWRqHjiytYhHPpLwXgdhKJIQy4U4JJGep5HFc3qDat4mAk0u7u7BGUsjRIPKbnqxkUEDHIweask7PWda1PTNShhSygaKZ1VpdpZwpJyxx70/wDsOx1R7Z7+4mlFvGU+RCqHJ25OR1461xY8MyeGbWS7uPFE2o3Ekflmee5khUbvukKhwOW6jk4rk/iVpt1qHh/UNP0C3hd2jdXvtVupZWCkZVgW569OeM1LZKPQvA+q+C/A/iLUvD9tqem2YupGuQjXu+V5CMvkN0HOcA967KPUvDzWaXP9oWKu2UWVJgFY/XP0r84/Dvxu8a/CHXJbHVNAhljGUhtdMiFu7Hy2XcJSpO0jHIPOBX0p4X8YaD8RPhJeXjeCbbR9QwSiX0sMjSy4DNIC24nknkgE1nGomP1PoD5LaxS4N1FcJGQP9Hk3jkdOvOav+FbW6u/tAlt7iygeQsnnuCzk9SOeK8F0TwT4O17wXFJaz3EZm8ueS0tgFkmC8/eiAZCSfYHHSr8nhHUvDVzZHT9T8bX/AJfkt9m+1B3jxuz80hOR0z64rdSuNWPSfiH4Z1f7H5Phy0a+1RW81Hnb92gDcqT9KqeD/Aq+HdQ1nUpI7eDUdSn8+WJTlY5PLAYKe2W5PrT9Dm12/SWDVdV1S0jmZk23D28cqgD5SDGnB9qvXngqe81CFIvGGrwW4zIYY5Yj5oxgkuyZH4U7K9yipcaHrWrTK92toRDmBDbsrOqnvhqztD8E63FeajbavE2o6ezsbe/ScxyhcKqg4Pt2rx7xL4Z+KPgPxtqkmjeH9T8deEblFglmt9WW41GPA+aSKOXhfw5r1v4a+HfEmp+D4FtNQ8UeGJYYWjVNftYXlzwV3gDkj1BqXK7D2d9TX0uOW4jl046It3YsvkrdPIJ0KsTuVyTuPpzVzw/Z2Vrox0KbUbe2eKQjy7bOY0BUhSGY8AccVtyW+oabpq+bqUMk8MfzP5ZijkYfeYKOgJycdqqXGjvrcdvfNdhWaBsrbxgh26Bv04qyWct4b8M+FtM8bXt5Y6jJNrd7bqtwTOxxFGy4jAJ+Ud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TTbi+unWK1hAJY85PYepJPGO9cpqWjjx9NHYSrLHpaOrXUbAbrhvvpBnsP427HOD0rUn2a5rV606/6Jo0qBIuu6YozmTHThAAB65NaXhOPd4dsJiqo9xALiRV+7ucBm/U1JNjS0/SY7RFEaeWqgBQoxgDpgdsVS1rQzLseEFHj5UKcA8cA1vCTbCM9fWsjVtU+xRvhSzcYHb8aojUydF+1TWZF1D++6Pu5HFVJtPMN5NNIAwJwvt9K0o9QdnjZhgHgqDxVG/vxHdLwxDHG3sPfFArHB+NLoW6PapALu4miZhGx4aMYyPzyPfFaum/DfwtdabbrJoenTRvGF2z2kbuFIBAyRmtmXw3HNrUV7KwcudgXHRQM4/PmuvaxhFu7bAp2klh1J7VPLrdjPBfix8NPDXgHwvNqHh/wtZXuu3RW1sbGG1iP2i5ZfkDArtOAHZmPZRmqfwz8E3PhXSPtP2CSK41BUmnjuNpe2kMYJj2gAbQwYfLx6V6Lodyvir4oavc3Acw+F41s7aAsdrTTRiSWYj1Ee2Ne4DSdNxzs61eJ4fkk81PPhkQzrtwG4bG0jGO/XrWduo7Hlel3niHXF1PS7O+0m21ZHZEszp8iMy7eo3SDeOT09TXnnxi/Z/07WNFgQy2uneJrZFWESRfIyk5ZQSSQM9Bk16r8RL6y8QQ28lgs+meILVpZLHUoSFaCSM8qTyWjfBDL3HauW+L3xHjt/hoPEc+lx3UqRwM1vI5K4Z1VsN1yuflP54zUyjowt3PkLT/CGmaa0sEtrcXV7YsY9R0+WAF4Z2OFEC5/eK+MZH3VGTXufwA8C3lr4snuLxdPhuJ4saZJbyC4SNsbjGMkbCACKd4DvLGb4y2Oq6nbtd3to4sPNRQvmxS2s0gLjoWBiXn3Ner+LPDtnpOqxyaRCtrcXUwaW5yFkHy5BBUZJHPfvXHSjZ3uQlY7rS/inpVrYGPWrprDV4VaM2N5btC5b/ZB+WQe6nHpXxt8bPHXiHUfiElroF4ytrkkcCWsUXMTKzK2Afb+Veht8RLrxn8T7GzuIDqE2mQTL9kuJFhtpJW2sJchHYELxjGMkmvbfg34PtfF+sf8JXrWiabaXOmr5NjHbStcNExTcz7ikfODgcHFbu8+prE5r+wI/wBnP4WadpGg2ra5rE0i3N9cy48znl3J6jjOPQcV6h8LfEXhH4uaFa69ophGoW6tbM68TQNkbkfuRuHU+ma8L+M3ifxB4T0/VfGct1byW13cyW8VpHGd3l8iNXPAOFxnHU815B+wHdTn4peLEjnmjkutMF2dsrBMhuQVzg89D1FOnV5pWsdLp2jc/RBvPbd5nMamnDUILq3MSu0ODjcpFX7eSFbNUdGLOMHnP6mud1QHTtwQKVZuB6V1HNuYviHwHqXiOZvI1++sYWwQsflNuwc8hlOM+orlfiT8FtP8bWZttY23sSyCVVnjVs8fSun07WL7T5JHklURtJjZCOvpkmtG11yTVoWMiBSGeMkdflOM1DimOx8Qah+z7d6XaeILjRNYhtBot8WVJsll2Kk29T/CwDDGK9H8F65a/CnXre21LUbrV08SWu+Oe6HW5VS65/u7klcfWIDsK9O13wlHFda5FD841vc8u9gu1vLiib+E8FVH5mvC9KvtL8UWWgeAtTgmm8RRyBDq8v75N1tIwYLllKqctjA6McjmuRxVPYpaH1z8NbWa38CaXZXVxJdTojFZ2Jyy7sr15A24AHYcV1lpHHAqM53FjyvvWT4HgK+G4pppWkkEalWwAeg61q6KXvriZ3CbAwCDHIPcmuqOyAr6lpjSXgnQMyMMFAvSs23sbrwzNLJboz28xzhzypJrrprgWl0pKcMcfKeakvLVL5vJfr98H2qwFW4EoWC4Iy3QUuqaXtjikhfyrqFgYpGPB45Vh3U03+xVW7R/MYlTxuOTW40MdwiiVQ2BtBxzigCvo9895ZB2i+zunDJnoe4q01xGq4XCnHCiq0lgFZvLYqDzis5d9rfBJ281W+7jjFAE19qQhXLKSc7cD6VLpO17f5hhW+YZ9+1VdUjRfmA+6A3JqzYzedbr8oXjPFAFTXrptOtLq6kYmKFGlI68AE/4Vk2LXmoXbOLmWGGE7ZbaWIHcCN24NWzr+kw+INHvbC4yIbqJoX2nBG5WGR9OKms1Fq0SIq+TsK7cc+n8qAMLWtBvdUt2W3vFhk2/u90e4KfUjIzzXm7eHPiPpbSNqNzo/iyybd/ok1n9mZlzyI5FbbnHZs17iY4m52/Mc9arz2gZolz8yp1z1p8qEzzfQ/GWpa5dzW1rod1YPZtELmLUF2bFYMGKMo2vjA6cV2UkLXkfAjEo6NjIzzz+p/OsbUbO/t9QMj3qkYYrbxxhU2k9Sxyc464wK0dLmS7jyqmKRMhip4JB9KImZ//Z)**

**Płytka stykowa i ESP32**

Zdecydowaliśmy się na przymocowanie płytki stykowej z ESP32 z tyłu kosza. Dzięki temu urządzenie wyglądało bardziej estetycznie. Pozwoliło to nam też na zabezpieczenie przewodów przed przypadkowym wyrwaniem z płytki stykowej przez osoby korzystające z kosza.

Obraz zawierający tekst

Opis wygenerowany automatycznie

**Wyświetlacz**

Aby umożliwić użytkownikom naszego śmietnika łatwy dostęp do wyświetlacza postanowiliśmy zainstalować go w górnej części kosza; na klapie. Aby ukryć przewody łączące płytkę stykową i wyświetlacz wykonaliśmy otwór w klapie śmietnika.

<https://www.youtube.com/watch?v=0xQYiDoSXF8&ab_channel=IrekOkni%C5%84ski>

 Obraz zawierający czerwony

Opis wygenerowany automatycznie

**Czujnik odległości HC – SR04**

Sensor ten miał odpowiadać za sprawdzanie stanu wypełnienia śmietnika. Aby umożliwić precyzyjny pomiar, musiał on być stabilnie przytwierdzony do klapy śmietnika. Użyliśmy w tym celu drucików, które przełożyliśmy przez wywiercone przez nas otwory w klapie oraz otwory w płytce czujnika.

Obraz zawierający czerwony, maska, zamknąć

Opis wygenerowany automatycznie Obraz zawierający czerwony, wewnątrz, jasne

Opis wygenerowany automatycznie

Kontaktron MC-38

Czujnik ten miał odpowiadać za sprawdzanie czy śmietnik jest zamknięty. W tym celu przymocowaliśmy jedną (stałą) część do ścianki kosza, a drugą (ruchomą) do pokrywy. Użyliśmy do tego taśmy klejącej.

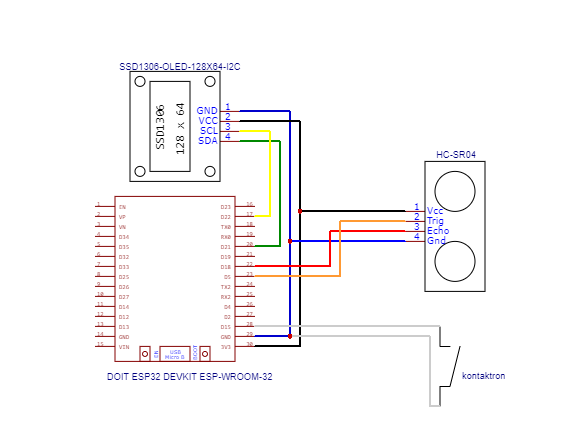
Obraz zawierający czerwony, wewnątrz

Opis wygenerowany automatycznie Obraz zawierający czerwony

Opis wygenerowany automatycznie

**Połączenie elementów.**

Po przymocowaniu elementów elektronicznych do kosza podłączyliśmy je do płytki stykowej. Schemat połączenia wygląda następująco:



**Gotowy prototyp.**

**Obraz zawierający kontener, czerwony, pojemnik

Opis wygenerowany automatycznie**

**Testy prototypu.**

Testowanie naszego prototypu polegało na sprawdzeniu jak urządzenie zachowuje się w następujących sytuacjach:

1. Zamknięty i pusty.

2. Zamknięty i nie do końca wypełniony.

3. Zamknięty i pełny.

4. Otwarty i pusty.

5. Otwarty i zasłonięty czujnik.

Testy zostały udokumentowane nagraniami, które znajdują się w katalogu „Testy”