

# Vector 1 flight computer parts list

This list includes almost all the parts I used or similar and where to buy them. There are a few small things not in this list like the resistors, but those are very common anyway.

- **Arduino Nano Esp32**  
<https://store-usa.arduino.cc/collections/boards-modules/products/nano-esp32-with-headers>
- **Perfboard**  
[https://www.amazon.com/Single-Sided-Universal-Packs-12x18/dp/B08WPLW2RM/ref=sr\\_1\\_6?crid=26ARBSJCZ7CWQ&dib=eyJ2ljojMSJ9.znPWfo-OuIE5-j0-FzLCiwbVsTBLd58GfC9m1q7xjeGTiLzl6-e6fC76v-6SCX0qlHaf85FdA0B1EicUt\\_B5ZeYWvJh6j2JenchmtwqTzMN3vgtbYFBFykeNaNOKGJHxtEVgyWIRf6iWbspsJMsH9wb7KKizWQ7AWzvi\\_MnSB2QfwJ85mHQZ1o5IUvXQi\\_wxead6PDIfieekJVg1ORDvn\\_byGfe9hVB3naU-SQLIE6U.g87\\_KZCnOlipB5DMJbCtweaiTaKpRhChHzSg9lCH-HQ&dib\\_tag=se&keywords=8x12%2Bperfboard&qid=1743343890&srefix=8x12%2Bperfboard%2Caps%2C88&sr=8-6&th=1](https://www.amazon.com/Single-Sided-Universal-Packs-12x18/dp/B08WPLW2RM/ref=sr_1_6?crid=26ARBSJCZ7CWQ&dib=eyJ2ljojMSJ9.znPWfo-OuIE5-j0-FzLCiwbVsTBLd58GfC9m1q7xjeGTiLzl6-e6fC76v-6SCX0qlHaf85FdA0B1EicUt_B5ZeYWvJh6j2JenchmtwqTzMN3vgtbYFBFykeNaNOKGJHxtEVgyWIRf6iWbspsJMsH9wb7KKizWQ7AWzvi_MnSB2QfwJ85mHQZ1o5IUvXQi_wxead6PDIfieekJVg1ORDvn_byGfe9hVB3naU-SQLIE6U.g87_KZCnOlipB5DMJbCtweaiTaKpRhChHzSg9lCH-HQ&dib_tag=se&keywords=8x12%2Bperfboard&qid=1743343890&srefix=8x12%2Bperfboard%2Caps%2C88&sr=8-6&th=1)
- **Capacitors**  
<https://www.digikey.com/en/products/detail/panasonic-electronic-components/EEU-FP1E202B/9607234?s=N4lgTCBcDaIA4EYwGYCcBWAHAYwC4gF0BfIA>
- **Lipo**  
[https://www.amazon.com/Zeee-Premium-Quadcopter-Helicopter-Airplane/dp/B08H5F7Y9J/ref=sr\\_1\\_1?crid=X4ABQ6V6QLAK&dib=eyJ2ljojMSJ9.H1LIMmKhqzB-wcdsQs6MkNiB8xE51IEfhlpZS0dEyDLImGTfIMsgxT5uDQMlbTyPA0KbAOEjruzfq17MOSzFdMPKfN51cNLiTBVYcn\\_Fy-iyXIC3J8PerQXvvWyQeMG7GTG75PCqvFa8IOXQE1JHfWXdNqi4gPILqk5HHdoPae7x8t1a0wHKPnVnxC-zJCO9NIJr1WkjMZjvEBTmo9H1aXmofhAKpHlpSPbDRyhhgj5NMmc-C2kTYM4lZA3GCP4wM1UmihSsZivavsJyqMZ8CfOy7mBHKN0RQ4M2cOY7VEdF0Z6n6PRAtdzi7xrAx8yD2wc\\_3uxR9KAPIdzFAWacfM-GdlWPLTTH3QtDOR8xijvpfYJ4mj\\_l-kOLAYqdNaCppX\\_gHyHNx2fT8Nr7lb9SO5YkyvUBk7PTy64S3G\\_0UI9qtXZuiKH56JpgQjhVmzU.0Qis4jqyF\\_2x-B-pKZz7VgTh1sRkZOmfjj6kSqeWnNo&dib\\_tag=se&keywords=zeee+premium+series+3s+lipo+battery+650mAh&qid=1741491449&srefix=zeee+premium+series+3s+lipo+battery+650mah%2Caps%2C80&sr=8-1](https://www.amazon.com/Zeee-Premium-Quadcopter-Helicopter-Airplane/dp/B08H5F7Y9J/ref=sr_1_1?crid=X4ABQ6V6QLAK&dib=eyJ2ljojMSJ9.H1LIMmKhqzB-wcdsQs6MkNiB8xE51IEfhlpZS0dEyDLImGTfIMsgxT5uDQMlbTyPA0KbAOEjruzfq17MOSzFdMPKfN51cNLiTBVYcn_Fy-iyXIC3J8PerQXvvWyQeMG7GTG75PCqvFa8IOXQE1JHfWXdNqi4gPILqk5HHdoPae7x8t1a0wHKPnVnxC-zJCO9NIJr1WkjMZjvEBTmo9H1aXmofhAKpHlpSPbDRyhhgj5NMmc-C2kTYM4lZA3GCP4wM1UmihSsZivavsJyqMZ8CfOy7mBHKN0RQ4M2cOY7VEdF0Z6n6PRAtdzi7xrAx8yD2wc_3uxR9KAPIdzFAWacfM-GdlWPLTTH3QtDOR8xijvpfYJ4mj_l-kOLAYqdNaCppX_gHyHNx2fT8Nr7lb9SO5YkyvUBk7PTy64S3G_0UI9qtXZuiKH56JpgQjhVmzU.0Qis4jqyF_2x-B-pKZz7VgTh1sRkZOmfjj6kSqeWnNo&dib_tag=se&keywords=zeee+premium+series+3s+lipo+battery+650mAh&qid=1741491449&srefix=zeee+premium+series+3s+lipo+battery+650mah%2Caps%2C80&sr=8-1)
- **Terminal Block**  
[https://www.amazon.com/Terminal-Connectors-Arborix-Assortment-Breadboard/dp/B0DHBXL6LG/ref=sr\\_1\\_7\\_sspa?crid=1D1INKMFSZX12&dib=eyJ2ljojMSJ9.M9lCrYA-76wRDUux203oB6yE3pPdLM3oaA4CGjBhDSxOleG64uTE-51cu7MR9icUx9oah03lhZcd8hmzvynj4GjrQime8mxKI99Ehl6oFJoeiU8Tm1lbc1mfaNgTwBBjKFHawd7RDCGTgsFqw55LPfX1MqgQENnmFy-Kt0KqYT4wZ5ji50479QMHXURcXzcaCgpaLYVDjy6cUXe2u-ebv2ZAWd8LMFfRHY3dFpWvI80.4eoZu64KsuBtgQhGguBkajRd6z4JRLCh6ogbN--9pgk&dib\\_tag=se&keywords=terminal+block+assortment&qid=1740886047&srefix=terminal+block+ass%2Caps%2C92&sr=8-7-spons&sp\\_csd=d2lkZ2V0TmFtZT1zcF9tdGY&psc=1](https://www.amazon.com/Terminal-Connectors-Arborix-Assortment-Breadboard/dp/B0DHBXL6LG/ref=sr_1_7_sspa?crid=1D1INKMFSZX12&dib=eyJ2ljojMSJ9.M9lCrYA-76wRDUux203oB6yE3pPdLM3oaA4CGjBhDSxOleG64uTE-51cu7MR9icUx9oah03lhZcd8hmzvynj4GjrQime8mxKI99Ehl6oFJoeiU8Tm1lbc1mfaNgTwBBjKFHawd7RDCGTgsFqw55LPfX1MqgQENnmFy-Kt0KqYT4wZ5ji50479QMHXURcXzcaCgpaLYVDjy6cUXe2u-ebv2ZAWd8LMFfRHY3dFpWvI80.4eoZu64KsuBtgQhGguBkajRd6z4JRLCh6ogbN--9pgk&dib_tag=se&keywords=terminal+block+assortment&qid=1740886047&srefix=terminal+block+ass%2Caps%2C92&sr=8-7-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9tdGY&psc=1)
- **Buzzer**  
<https://www.digikey.com/en/products/detail/mallory-sonalert-products-inc/PT-1241PFQ/4996069>
- **Mosfet** <https://www.digikey.com/en/products/detail/infineon-technologies/irlz44npbf/811808>
- **Diode** <https://www.digikey.com/en/products/detail/diotec-semiconductor/1N4007/18833652>
- **Buck Converter** <https://www.pololu.com/product/2859>

- **Optocoupler**  
<https://www.digikey.com/en/products/detail/american-bright-optoelectronics-corporation/BPC-817-B-BIN/9678142>
- **Mpu6050**  
[https://www.amazon.com/HiLetgo-MPU-6050-Accelerometer-Gyroscope-Converter/dp/B00LP25V1A/ref=sr\\_1\\_3?crid=1RY25SLP185PU&dib=eyJ2ljojMSJ9.nQ-HfKOFyZosrV3cxLK6oqTLeFBezgiPdZnOsWolHGP0x17Uouy5bt03LVPhEW-m0LmPajityooAG1vz3HTvhLIZJw4ZI\\_QI2CNkIRakWu6FzFILWjVbu3GjyO6ARPOJ3D3m\\_jABCs1bBJhnOiGOxAlAxSM40IGCXoAurKVj9KPYZ2Zk2-S1GGqHJPn7QX41LfKCKR-7KBOYfy2JMUUhVvIJNxmJl-zfCof-QxNX0.2O7JuB02HcTkRxl1s3hCQsCykT\\_KTCeK0kXrfKjqjEk&dib\\_tag=se&keywords=mpu6050&qid=1743344372&sprefix=mpu6050%2Caps%2C132&sr=8-3&th=1](https://www.amazon.com/HiLetgo-MPU-6050-Accelerometer-Gyroscope-Converter/dp/B00LP25V1A/ref=sr_1_3?crid=1RY25SLP185PU&dib=eyJ2ljojMSJ9.nQ-HfKOFyZosrV3cxLK6oqTLeFBezgiPdZnOsWolHGP0x17Uouy5bt03LVPhEW-m0LmPajityooAG1vz3HTvhLIZJw4ZI_QI2CNkIRakWu6FzFILWjVbu3GjyO6ARPOJ3D3m_jABCs1bBJhnOiGOxAlAxSM40IGCXoAurKVj9KPYZ2Zk2-S1GGqHJPn7QX41LfKCKR-7KBOYfy2JMUUhVvIJNxmJl-zfCof-QxNX0.2O7JuB02HcTkRxl1s3hCQsCykT_KTCeK0kXrfKjqjEk&dib_tag=se&keywords=mpu6050&qid=1743344372&sprefix=mpu6050%2Caps%2C132&sr=8-3&th=1)
- **Bmp180**  
[https://www.amazon.com/ACEIRMC-Temperature-Barometric-Pressure-Arduino/dp/B091GWXM8D/ref=sr\\_1\\_3?crid=7JY1WANXDS17&dib=eyJ2ljojMSJ9.eAv\\_fz\\_bzt3HnC2AiXBgFx-aocQulmVYcUzqXVzEvsSfzQr6rkzx\\_Gk7JLNB8r8pQWVKscb1o31DMDYJX-cVU4GYwzr92rzvDrGd2x-hZ4b9RM26J1cCOc7U2h1LZGh0RI7m5X6PoFktD5651US4W5YSk9BiKdVanpt8kMKVEcSE\\_UQ93fk2pALzyy5TER3DLYTHCGI4uOvJlphKny2dD1dmbHvnEhq2C7w\\_4I39U.5FxFtJ-I5wihledLLOvqWLpko6I6-q8iL5WdSySXyA&dib\\_tag=se&keywords=bmp180&qid=1743344438&sprefix=bmp180%2Caps%2C116&sr=8-3&th=1](https://www.amazon.com/ACEIRMC-Temperature-Barometric-Pressure-Arduino/dp/B091GWXM8D/ref=sr_1_3?crid=7JY1WANXDS17&dib=eyJ2ljojMSJ9.eAv_fz_bzt3HnC2AiXBgFx-aocQulmVYcUzqXVzEvsSfzQr6rkzx_Gk7JLNB8r8pQWVKscb1o31DMDYJX-cVU4GYwzr92rzvDrGd2x-hZ4b9RM26J1cCOc7U2h1LZGh0RI7m5X6PoFktD5651US4W5YSk9BiKdVanpt8kMKVEcSE_UQ93fk2pALzyy5TER3DLYTHCGI4uOvJlphKny2dD1dmbHvnEhq2C7w_4I39U.5FxFtJ-I5wihledLLOvqWLpko6I6-q8iL5WdSySXyA&dib_tag=se&keywords=bmp180&qid=1743344438&sprefix=bmp180%2Caps%2C116&sr=8-3&th=1)
- **Micro Sd breakout**  
[https://www.amazon.com/pzsmocn-Micro-SD-Compatible-Raspberry-Teaching/dp/B08FB3GC34/ref=sr\\_1\\_4?crid=8LEJJCQJFF96Y&dib=eyJ2ljojMSJ9.LRN8E8Olk\\_35JfGunekVueyQIHtKI2w96UkYUPat9pLwM7Qg660IZwA03ujmK5\\_jXzxvOm5YpT06JSvbyqcC6WrRN34sgeDqPUn1LJr0jivXpvAwFy3RF65CdqrR\\_8sbsNFid6NkO0PfCiZ1dZo6CCnQNK6uxmsd4rqtlsf04lqf1E1AjbnPg-FBRkpNfA3nnojJrUE6V5aSgyxHC1X0N3O-kywVZwZpa3OE7z6fPnk.MOlzrkA3nXJESX564LI3WPr6LGANYrel\\_M28IKSWY2Y&dib\\_tag=se&keywords=micro%2Bsd%2Bbreakout%2Bboard&qid=1743344486&sprefix=micro%2Bsd%2Bbrea%2Caps%2C99&sr=8-4&th=1](https://www.amazon.com/pzsmocn-Micro-SD-Compatible-Raspberry-Teaching/dp/B08FB3GC34/ref=sr_1_4?crid=8LEJJCQJFF96Y&dib=eyJ2ljojMSJ9.LRN8E8Olk_35JfGunekVueyQIHtKI2w96UkYUPat9pLwM7Qg660IZwA03ujmK5_jXzxvOm5YpT06JSvbyqcC6WrRN34sgeDqPUn1LJr0jivXpvAwFy3RF65CdqrR_8sbsNFid6NkO0PfCiZ1dZo6CCnQNK6uxmsd4rqtlsf04lqf1E1AjbnPg-FBRkpNfA3nnojJrUE6V5aSgyxHC1X0N3O-kywVZwZpa3OE7z6fPnk.MOlzrkA3nXJESX564LI3WPr6LGANYrel_M28IKSWY2Y&dib_tag=se&keywords=micro%2Bsd%2Bbreakout%2Bboard&qid=1743344486&sprefix=micro%2Bsd%2Bbrea%2Caps%2C99&sr=8-4&th=1)
- **SPDT**  
[https://www.amazon.com/Position-Vertical-Available-Electronic-Projects/dp/B0DR2DPW59/ref=sr\\_1\\_9?crid=EY55Z3DC15XW&dib=eyJ2ljojMSJ9.EYCMs0aGQd81\\_PAdqZrIRJDXUI559ul4oCtEodGTXCSoIr1l5y9mE1j0oqPCAPb9OuGzvzyoys9XpfK3Np3e7Ge5pl5sp0VSK40aSGXinqBj6jpjMqKB2HCi-bCu1c2ku00ibly83MaV069kNWNaoFEF-GZR6UPYQaQynh94s-UXgyBQgbZtgvbq3BuuoIffQ3UJg-el1GE49yP1QaABb8TGPxMadvhk7cbiy2lzhDM.UkPtManHCuoNCAv60cr9rOz0SevyftAPhoL7ZkbVHVk&dib\\_tag=se&keywords=spdt%2Bswitch&qid=1743344545&sprefix=spdt%2Caps%2C157&sr=8-9&th=1](https://www.amazon.com/Position-Vertical-Available-Electronic-Projects/dp/B0DR2DPW59/ref=sr_1_9?crid=EY55Z3DC15XW&dib=eyJ2ljojMSJ9.EYCMs0aGQd81_PAdqZrIRJDXUI559ul4oCtEodGTXCSoIr1l5y9mE1j0oqPCAPb9OuGzvzyoys9XpfK3Np3e7Ge5pl5sp0VSK40aSGXinqBj6jpjMqKB2HCi-bCu1c2ku00ibly83MaV069kNWNaoFEF-GZR6UPYQaQynh94s-UXgyBQgbZtgvbq3BuuoIffQ3UJg-el1GE49yP1QaABb8TGPxMadvhk7cbiy2lzhDM.UkPtManHCuoNCAv60cr9rOz0SevyftAPhoL7ZkbVHVk&dib_tag=se&keywords=spdt%2Bswitch&qid=1743344545&sprefix=spdt%2Caps%2C157&sr=8-9&th=1)
- **XT-30 Connector**  
[https://www.amazon.com/5Pairs-Female-Connector-Silicone-Battery/dp/B0B4H4GKQL/ref=sr\\_1\\_1\\_sspa?crid=2RGPZGDSB7S6Z&dib=eyJ2ljojMSJ9.JHEyneYmcSKmE5o8Vs62jiz9YFVI1ibAKAdgWTNeRinixOUKR8725HLzoR5JrT9e3fpaDXWbOUZk2jvC3sNW00oc4hliv-FURvOybrkSmZHw87-alNex7F\\_GsyJzintMyKvucjZRKtbzYVd7IVkFYLMotGaJtYQiWf-HCuW-Bzkd2Mqqd\\_34T3A-kiRSS3VHbx0XoDWmCASr-7Xqbv6kXGHeSkhWRlyGPd4FYqidulqQKs2a7vmsTXqG3QgNMQiCChhRLBpRM2Qq4MRcHjuj0qNnZkFIOa1QoBbYyJ5co.nCzTvOq6CXr3\\_zonGAL4veSEBEC\\_GoATwWeY9Gisvdk&dib\\_tag=se&keywords=xt30%2Bconnector&qid=1743344610&sprefix=xt30%2Caps%2C138&sr=8-1-spons&sp\\_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1](https://www.amazon.com/5Pairs-Female-Connector-Silicone-Battery/dp/B0B4H4GKQL/ref=sr_1_1_sspa?crid=2RGPZGDSB7S6Z&dib=eyJ2ljojMSJ9.JHEyneYmcSKmE5o8Vs62jiz9YFVI1ibAKAdgWTNeRinixOUKR8725HLzoR5JrT9e3fpaDXWbOUZk2jvC3sNW00oc4hliv-FURvOybrkSmZHw87-alNex7F_GsyJzintMyKvucjZRKtbzYVd7IVkFYLMotGaJtYQiWf-HCuW-Bzkd2Mqqd_34T3A-kiRSS3VHbx0XoDWmCASr-7Xqbv6kXGHeSkhWRlyGPd4FYqidulqQKs2a7vmsTXqG3QgNMQiCChhRLBpRM2Qq4MRcHjuj0qNnZkFIOa1QoBbYyJ5co.nCzTvOq6CXr3_zonGAL4veSEBEC_GoATwWeY9Gisvdk&dib_tag=se&keywords=xt30%2Bconnector&qid=1743344610&sprefix=xt30%2Caps%2C138&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1)
- **Toggle Switch**  
[https://www.amazon.com/TWTADE-Solder-Rocker-Switch-KCD1-X-F/dp/B07XD8J2PL/ref=sxin\\_1\\_6\\_pa\\_sp\\_search\\_thematic\\_sspa?content-id=amzn1.sym.1ac62dee-1169-4bf4-91b9-84fe33c930b](https://www.amazon.com/TWTADE-Solder-Rocker-Switch-KCD1-X-F/dp/B07XD8J2PL/ref=sxin_1_6_pa_sp_search_thematic_sspa?content-id=amzn1.sym.1ac62dee-1169-4bf4-91b9-84fe33c930b)

[1%3Aamzn1.sym.1ac62dee-1169-4bf4-91b9-84fe33c930b1&crid=P93JRZG04E6X&cv\\_ct\\_cx=togggle%2Bswitch&keywords=togggle%2Bswitch&pd\\_rd\\_i=B07XD8J2PL&pd\\_rd\\_r=a1f9d321-80b5-4f4c-8a1a-d8f60f18cb04&pd\\_rd\\_w=0cc00&pd\\_rd\\_wg=m93mS&pf\\_rd\\_p=1ac62dee-1169-4bf4-91b9-84fe33c930b1&pf\\_rd\\_r=776BGMQTH6P9WE35P1P5&qid=1743344665&sbo=RZvfv%2F%2FHxDF%2BO5021pAnSA%3D%3D&srefix=togggle%2B%2Caps%2C156&sr=1-3-6024b2a3-78e4-4fed-8fed-e1613be3bcce-spons&sp\\_csd=d2lkZ2V0TmFtZT1zcF9zZWYy2hfdGhIbWF0aWM&th=1](https://www.1%3Aamzn1.sym.1ac62dee-1169-4bf4-91b9-84fe33c930b1&crid=P93JRZG04E6X&cv_ct_cx=togggle%2Bswitch&keywords=togggle%2Bswitch&pd_rd_i=B07XD8J2PL&pd_rd_r=a1f9d321-80b5-4f4c-8a1a-d8f60f18cb04&pd_rd_w=0cc00&pd_rd_wg=m93mS&pf_rd_p=1ac62dee-1169-4bf4-91b9-84fe33c930b1&pf_rd_r=776BGMQTH6P9WE35P1P5&qid=1743344665&sbo=RZvfv%2F%2FHxDF%2BO5021pAnSA%3D%3D&srefix=togggle%2B%2Caps%2C156&sr=1-3-6024b2a3-78e4-4fed-8fed-e1613be3bcce-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9zZWYy2hfdGhIbWF0aWM&th=1)