**Autonomous Flying Robot Components**

1. **ONE – Arduino Nano ATmega 328** [**Buy Here**](https://www.amazon.ae/MakerFocus-ATmega328P-Microcontroller-Board-Cable/dp/B00NLAMS9C/ref=sr_1_2?crid=3NM3X91BVZ141&dib=eyJ2IjoiMSJ9.cz0ouaK4i9kCVFPHvBs-QC7gzrkekCv2Si9Wbdy5gZFdxZOQqTNAc5ytaW_4m36C3nsAqRwhbiAF-uK2ntd31OaLu1uOOfTMN8fQ6h4Obrkluk77HmksG7C7-8Dyi5SyHaK8gXuFUdWwKna7t2elkeHyM0nI9RgkaYsl0yuypzt4N2zYDIRQaQJf4oDK_-MNwGarcGS8Xk8MI0AxKDd6CIfvOEe8YhgJicV896gF4nidGc_fLtu-WVi-j2_89NFwOCGOEutv93mS4NzhvmQkD_Btp20VjEgKf7XhYa6DhU4.mmA_ni3IT2LMqXIyYXG5mg8JLhDjWC4WHIPyBAKDVAU&dib_tag=se&keywords=arduino+nano&qid=1726035865&sprefix=arduino%2Caps%2C454&sr=8-2)
2. **ONE – Lithium Ion 3.7V - 5V 2100mAh Rechargeable Battery** [**Buy Here**](https://www.amazon.ae/HXJNLDC-2100mAh-Lithium-Replacement-electronic/dp/B091Y6DX5N/ref=sr_1_35?crid=DMIJ7CQ0XXOA&dib=eyJ2IjoiMSJ9.x1qhhYpLfs36pK2ONXcQIImk_hsfaUaJlRwdI6SORtWE9EGtTfiPA_ZCetiar5KuUSB5pLfayyiHOeXxdnAVa36z7Ie7TAgi9h5pOwHnMmNrA-w_wPwTPYiMQB6EywWBLKlV2PoRTxf3VwuC8UsROiYFFo5lpUQEWDrIDRvljjl8GEwLGjHFguo-PASkz58KsBW_hO09IFFLSJ6hPy_5O5E_AIu_3NQCrXO2h2ua1E_7x4lIJ3Nhr3ZUpogpfxiq_h5Xv4s9_A0_Z6TUAWVyWWyFsWIOrMTqA2HE554wZj8.QQiXAIRDwFDVGRhW5fdK7o0eGdKa4vOsw1hU7yotNww&dib_tag=se&keywords=DC+3.7V+2000mAh+102535+Rechargeable+Lithium+Polymer+Battery%2C&qid=1726036076&sprefix=dc+3.7v+2000mah+102535+rechargeable+lithium+polymer+battery+%2Caps%2C356&sr=8-35)
3. **ONE – Boost Converter** [**Buy Here**](https://www.amazon.ae/Reland-Sun-XL6009-3-0-30-Step-Up/dp/B0C5RN3PL6/ref=sr_1_3?dib=eyJ2IjoiMSJ9.JqedHXw85iETrF1VehtiP-JFzPszU3EMQMvV5TQ-m7gZu-JrigaZKlq3RfapoPPT4CI7Cwpqx-wR9oImi3_EGIFLi5oiHKVe-JEa6uvw2IbtA5JOBqEfdSqZzjbF5e6HaVFMzQkrDIgDQ7gCSWJfNiah936YCwRAHaqzJ6rf5G290A6Rh0WKsYD05U4_CVEK9J1lAwPSY4f2ZtrpXex2kdWDp2PBSA54BszrSzNvUpnxELLhQ3bbn_yyL6whv2VSQMfhUUwPDlYLlpEpwgDfOai4BttElWpRDhsmPwhtZE8._EHfqwTshZCrvsd1u934QvTFBjsWRZDqTnSg9sNudaw&dib_tag=se&keywords=Boost+converter+module&qid=1726036891&sr=8-3)
4. **ONE – Mylar Balloon with Helium Gas (36 inch)** [**Buy Here**](https://www.amazon.ae/Light-Pink-Balloons-Party-Decorations/dp/B08XVST64W/ref=sr_1_28?crid=2V349OFHS25DD&dib=eyJ2IjoiMSJ9.tvozf0RvpnfhtBHXM_mN_UwfcFK3MIdTAT6fh3rj93rQNyRsH5IlSo68Of8DQzy06GFnqwliduJ4u6zI-nwcFZzmvh-nt6hWGitZuaPlDpt_LN-vPOJ9-ab2HOWtuFl65hEasQ5FI7v8g-qOe8b0XtxLsX6JZNQCfQ-XlfpqZ4xdJ-XMPs3O6HMYRJpPni-vuFDw7gPEXZ93DnegBjy6_80javRVcoPoqXgL8DQD3KMZZk-IMgJd9U7OVSVy0TNLzzmeTP885IDZfUMNeVJk0INCDuNI4kfjHM_xg7aW9Og.KDbQeekxCH1ycDrYbBH-AMiFrfLaXC8Vwr6xgdJndhw&dib_tag=se&keywords=mylar+balloon+36+inch&qid=1726036577&sprefix=mylar+balloon+36+inch%2Caps%2C297&sr=8-28)
5. **ONE – Sliding Switch** [**Buy Here**](https://www.amazon.ae/ZHuidjo-3-Position-Miniature-Horizontal-Sliding/dp/B0BGJL88NS/ref=sr_1_7?dib=eyJ2IjoiMSJ9.iQYsJR9W5ZmvtE9zJa7TuvtdlbOj8tQ7Scrh1eqIhuogDsOp26WWBTRMp285PCB4mTxPCgQmfNv58FZmG_kijseazWzne6CKp0I9JBLeeXwnCqAD6LMtl5HA7gLwm6rMzikqRtSFzyEqYcni4o8VNmzBFRq6LXcUfi-2AbbN46mOYSZPrR8DkVoFQHMGG8M0vreFBi2_rYk_0UCT2pAYx6pH1eRauryFI5nur59ds7yoLPEHqwTdejZB9uchCcAYlaVbVVNRjvPF-urjyc_qR4FiGdKPsweFJuwU0VAKoBg.c_VG4yusGYDbrhV_iBwjsVJaV83ekM1jgwZ0WLV2YTc&dib_tag=se&keywords=sliding+switch&qid=1726036769&sr=8-7)
6. **ONE – 8520 Coreless DC Motors** [**Buy Here**](https://www.amazon.ae/JUZITAO-Coreless-Brushed-Propeller-Quadcopter/dp/B0D5QG57P4/ref=sr_1_2?crid=3EHAUTF26FGJT&dib=eyJ2IjoiMSJ9.XmFfVzhZuX1A_l5vkTmwYGg8uHm3D44xK8wfoXxFkfaMv1EKrIB9dT-1MBQ1Ge_lMF421iv-ccoTJMW3Xb4igQwr229PzqRjghvLjYim44MahwD2kH-F5W9nsiLRCMeL69ZSV5dT35qHGwVqZNo8MakSPS6qyKy-N67iRxtfVe0zrl_0XHph29U7qTSSusIyjjTTpye6DSlO6_CuHR63Y0Y9kqAuOOyI3gZgLHtFIj-SZ60es0PWhK81lvZWDXmwlEbfUGS8ZdcWFxoHrkZIq-AFPSqQfG8YeRPZzk-d8og.9NCgRI-Bnenw32bW3RSnd4xhhaLzc5SQJTFJ8JmzlLo&dib_tag=se&keywords=8520+coreless+motor&qid=1726038024&sprefix=8520%2Caps%2C371&sr=8-2)
7. **ONE – DC Motor Driver (H-bridge L9110S)** [**Buy Here**](https://www.amazon.ae/Ferwooh-Stepper-Controller-2-5-12V-H-Bridge/dp/B0D17PJ2MS/ref=sr_1_16?crid=16WW6DNP0QVIX&dib=eyJ2IjoiMSJ9.z0dlRvkrEbgIOw4T3uGnau9R2dmxUYtKI0Y9ecTwyXnahsaopdEUEIeBGeyiTl9C1RnWRO2eGuZ965rHIZCM4oWNIS8U4GvBCS2RZpbEYYoxKPPHmE_LbVe8_tCnpZKb-zjm9HxVKkQu6H2mBrI6bUYmrNndJ6I-HlI1b2ez2WGcceFzrrMIWQhAXX_rU-5pMTAEJG75sopwhSiOnPqAnl33ln58AtQcOmlzfRj9eG6zBvnhBRKVYMyzWo3IUUMAl47UFOFbJzanodwkCWBMyGRiA7kffxkgS9cNw5lMtVM.vKSguGaug38YYMQt5meGyIwLmJ-07bUYNTRcthWCFVw&dib_tag=se&keywords=DC+Motor+Driver+H-bridge+L9110S&qid=1726038274&sprefix=dc+motor+driver+h-bridge+l9110%2Caps%2C311&sr=8-16)
8. **ONE – Xbee Module or Bluetooth (HC-05)**
9. **ONE - 9DOF IMU Sensor (Self Balancing)** [**Buy Here**](https://www.amazon.ae/UIOTEC-Modules-Accelerometer-Gyroscope-HMC5883L/dp/B07DMKZL6H/ref=sr_1_2?crid=241VJ98NS0ZAO&dib=eyJ2IjoiMSJ9.Uli8aeZWgIIIMl3NobVyWDypBf59PeqyLW7AFAJSa5cnLQx8qf-WQFJ9NZP2e4dxa5qwja4afy8n0NvfaBKxaA--3YslRhptbMSTWpMtPjrJWLCRFbF2FbzywjmBceIT45_zL7Ylb-WPOlF-hDodsFVEqsm_UptPPuRpr51QWIyWsT0GDjvRsawNA_RQksmbl9u8fgNer2NKh8opuj_mec3bCJXrMRgBTn_nVHnAMPbi0jmb5hR6CZdgJ22vPpyEJc2IcKQ0fy3Z4-3jFiMpC6YQVSzDAcVcEhON7Qf2TU0.bcsG0mb7OxtILPASYWVDVTrQUW6jHkQ0S_k--k14qXk&dib_tag=se&keywords=9dof+imu&qid=1726038708&sprefix=9DOF+%2Caps%2C359&sr=8-2)
10. **ONE – IR Proximity Sensor (Obstacle Detection)** [**Buy Here**](https://www.amazon.ae/Proximity-Sensor-Obstacle-Avoidance-Compatible/dp/B0BL92VPKX/ref=sr_1_5?crid=D9MYOI6BE4H&dib=eyJ2IjoiMSJ9.fbBSJVjkN-3v3mC05IW5gRFYvJONrbBqG8HVEJ9dN1hx2v_boKkzsCg1b6tdwsufX0oPUY_SrFpttxbrZpjGJxjLir99GNhjzGg3fMLsjLJWpcDAZ4DHHSl0OSGOl6om2eZOt-6opZKF7J-B7yp1RtsVDO9f_v9H38ZKymVOnaVmgaaUGDbthFgUM5-bU4IXiASkXMFtbRjeWNJEbiU1LAMOLY8DSJ8ODhuYyRKof2-JrAX70-y-y6UliaN-DBwL1qaoSYvDAkkAzVsXqJiRQx5gF9hk_zs13788aAyVqmY.PaCQufC0mhwFUmqJKmminR-OTTMrEDhFEKcfGIu8KiY&dib_tag=se&keywords=ir+proximity+sensor&qid=1726039306&sprefix=IR+proximi%2Caps%2C315&sr=8-5)