This is the catalogue file for my PowerPoint programming notes. Please search here if you are looking for something specific.

***Basics:***

**Basics – Motion In Time**

* Test kit assembling (2-7)
* Plugging in wires (2 pins / 3 pins) (6)
* New file in RobotC (9)
* Using motor and sensor setup to name motors / sensors (10)
* Don’t change the pragma statements (11)
* Basic movement in time (12-16)
* Basic logic: what + for how long (13)
* Run a motor for 1 second (14-16)
* Comments (1 line) (17)
* Downloading the code (18)
* Adding a second motor that does the same (19)
* Firmware update (20)

Related code file:

* **Basics – TestKit Examples.c**

**Basics – If statements and While loops**

* Setting up / Plugging in a button / limit switch (4)
* Configuring / Naming the button / limit switch (5)
* Multi-line comment (6)
* If statement flowchart (7)
* Using an if statement, conditions, braces, parenthesis, brackets (8-10)
* Conditions with buttons: on / off (9)
* While loop flowchart (12)
* Using a while loop (13-14)
* Difference between while and if (13)
* Fix formatting and importance of brackets (15)
* Final code with buttons (16)

Related code file:

* **Basics – TestKit Examples.c**

**Basics – One or Two Joysticks Drive**

* A look at the remote controller / joysticks (3)
* Two joystick drive / Tank drive (5-10)
* Two joystick drive channels, signs of the channels, range of values (5-6)
* Reversing a motor (7)
* vexRT (9)
* One joystick drive (12-17)
* Single joystick drive channels (12)
* Turning with one joystick, signs, adding / subtracting (14-15)

Related code files:

* **Basics – Two Joysticks Drive.c**
* **Basics – One Joystick Drive.c**

***Intermediate:***

**Intermediate – H Drive**

* H drive and what it does; steering wheel directions (3-4)
* Reversing the steering wheel (5)
* Single joystick drive on the H-Drive (6)
* Strafing wheel flowchart, if statements and conditions (7)
* Strafing with two buttons (8-9)
* Sticky joystick (10)
* Absolute values (11)
* Strafing with an additional joystick (10-11)

Related code files:

* **Intermediate – H Drive (Buttons Strafing).c**
* **Intermediate – H Drive (Joystick Strafing).c**