

# WeirWeather Group Meeting 16 Minutes

Date: 11:00, Mon 27/01/20

Room: RC473

Minute Taker: Zack North

## 1 Attendance

Zack North, Callum Brooksby, Tesfu Gebremedhin, Alexander Ulrichsen, Mario Manca

## 2 Announcements

Need to send a method statement and risk assessment to Paul McGowan for roof access.

Connection attempt was made to MAE server, but the server was not live... MAE IT department have now made it live.

## 3 Review Previous Meeting Minutes

The previous meeting's minutes were reviewed and accepted by the group.

## 4 Actions from Last Meeting

#	Action	Assigned To	Progress
1	Select & Order Data Package, GSM Module & Antenna	Zack	Done
2	Assemble Solar Components & Order Enclosure	Zack	Done
3	Start write code for Light sensor	Tesfu	In Progress
4	Modelling Cad design	Tesfu	In Progress
5	Create Historical API	Alexander	Done
6	Connect to MAE Server	Alexander	In Progress
7	Create historical chart display	Callum	In Progress
8	Design mounting solution	Callum	Done
9	Design Anemometer/ Wind vane Base and manufacture method	Callum	In Progress

## 5 Discussion

- Current wind sensor housings need to be redesigned for weather protection – ZN & CB will work on this using Autodesk Inventor 2019 & advice from mech students.

- Wind sensor electronics yet to be prototyped – ZN & CB to step in to accelerate progress.
- Still no access to MAE server – AU to contact Malcolm and MAE IT for support.
- Rain Gauge tested and results are accurate.
- GSM Module has arrived – still waiting for SIM card and SMA antenna – can test with small antenna provided with GSM module and personal SIM card – no data but can test texting to ensure communication with module is OK.

## 6 Actions

#	Action	Assigned To	Deadline
1	Test GSM Module with ESP32	Zack	01/02/20
2	Select & Order Enclosure & Mechanical Components	Zack	01/02/20
3	Create CAD Models of Wind Sensors	Zack & Callum	01/02/20
4	Testing light sensor with LDR	Tesfu	01/02/20
5	Design PCB	Tesfu	01/02/20
6	Connect to MAE Server	Alexander	01/02/20
7	Alter Historical API for chart requirements	Alexander	01/02/20
8	Design Anemometer/ Wind vane Base and manufacture method	Callum	01/02/20
9	Create historical chart display	Callum	01/02/20
10	Website testing - Web Browsers	Callum	01/02/20