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## DESCRIPTION

DEFT Dynamics is looking for an engineer to assist with the design and development of embedded electronics and app-control electronics hardware. This includes projects related to internet-of-things, robotics, and automotive. This position will be reporting directly to DEFT Senior Embedded Systems Engineer, Kyle Kubik. Our company offers competitive pay, a fun and fast-paced work environment for a growing team, and the ability to make an impact in your field. The DEFT Dynamics research facility is located near Pepper Place in Downtown Birmingham, AL.

### The Ideal Candidate

- Enjoys electronic circuit, electronic hardware, and embedded application development
- Is able to independently solve complex electronic architecture problems
- Self-motivated to develop and apply new processes and systems

### Desired Qualifications

- Bachelors in Electrical/Mechanical Engineering or Computer Science required
- Electronic hardware design (Component selection, IC implementation, circuits, PCBs in Eagle)
- Experience in PCB prototyping (solder printing/reflow, pick and place operation)
- Understand how to interface with sensors over i2c/SPI etc. and to build C++ drivers for them

### Pipeline of Current Projects (Day 1 activities)

- 'Shore power' sensor development for monitoring the 120VAC power systems in saltwater marinas
- LTE CAT-M1 layout and antenna design based on nRF9160
- MoxieloT produces PCB prototypes for customers in weeks. Rapid design is enabled by our organized system of Eagle Design Blocks and C++ drivers, but prototyping is currently a chokepoint. The applicant will build systems to transfer these prototype designs seamlessly to our in-house PCB prototyping equipment

### Occupational Details

- Job Type: Full-time, on premises; Normal hours are 8am – 5pm, Monday – Friday.
- Competitive base salary plus opportunities for performance-based compensation and year-end profit-share.

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## APPLICATION PROCESS

### Please Answer the Following

- How many years of C++ experience do you have?
- How many years of EagleCAD (Autodesk) experience do you have? PCB prototyping/production?
- What is the highest level of education you have completed? When did you complete it?
- Do you have experience with embedded programming at work or hobby (e.g. Arduino)?

### Please Provide

- Resume
- Examples of recent projects that showcase your skills and interests (images/description or demo required)
  - o PCB layouts / Schematics / finished PCBs for any application
  - o Clever, novel, or ingenious circuit designs (op-amps / high voltage / etc.)

**If interested, please contact:**

Austin Gurley – Founder & CTO  
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