

WORK-ENERGY-POWER

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Paris 'Spider-Man' Saves Young Boy. Cue Debate on Migrants



Mamoudou Gassama, a migrant from Mali, **sca** safety.

By Aurelien Breeden and Alan Cowell

PARIS — The 4-year-old boy seemed to be suspended from a balcony. An adult standing on a nearby balcony seemed powerless to help. Disaster seemed the only possible outcome. Then, to the nimble rescue on the streets of Paris on Saturday evening, came a young man whom some French people have started to call the Spider-Man of the 18th, referring to the arrondissement of Paris where the episode unfolded. **With a combination of grit, agility and muscle, the man hauled himself hand over hand from one balcony to another, springing from one parapet to grasp the next one up.** A crowd that had gathered before he began his daring exploit urged him ever upward, according to onlookers' [video that was shared widely on social media](#).

Finally, after scaling four balconies, the man reached the child and pulled him to safety. And suddenly, an act of individual courage and resourcefulness began to play into Europe's fraught and polarized debate about outsiders, immigrants and refugees.

The man, identified as **Mamoudou Gassama, 22, is a migrant from Mali**, a troubled former French colony in northwest Africa, who journeyed through Burkina Faso, Niger and Libya before making the dangerous Mediterranean Sea crossing to Italy and arriving in France in September, without documentation. On Monday, after his heroic rescue of the boy, he met with President Emmanuel Macron. Now, he will get the requisite documentation to live legally in France. "I told him that in recognition of his heroic act he would have his papers in order as quickly as possible," Mr. Macron said in a [statement](#) on Facebook after meeting with Mr. Gassama at the Élysée Palace in Paris. Mr. Macron himself has taken a tough approach to immigrants. Parliament has been discussing a draft law put forward by the French government that restricts the rights of [asylum seekers](#), a measure that has drawn fierce criticism from human rights groups. Mr. Macron has said repeatedly that France could welcome only those with legitimate grounds for asylum, a point he reiterated in his meeting with Mr. Gassama, according to Agence France-Presse.



President Emmanuel Macron of France meeting with Mamoudou Gassama at the Élysée Palace in Paris on Monday. **Mr. Gassama scaled four stories of a building in the French capital to save a young child hanging from a balcony.**

INTRODUCTION: This migrant(160 lb. body) in Paris climbed four floors(10 ft. per floor) in 2 minutes to save this child. The goal of this application is to find values of several concepts in the questions.

Questions: (a) Find mass of Mamoudou?, (b) Find work Mamoudou did climbing the four stories?, (c) Find Mamoudou's increase in gravitational potential energy($U = ?$), (d) Find his power(in ft. lb./s. & HP) output during the climb?

HINTS: $W = F X$, $U = m g h$, Power = work/time = W/t , 550 ft. lb./s = 1 HP

ANSWERS: (a) $m = 5$ slugs, (b) $W = 6400$ ft. lb., (c) $U = 6400$ ft. lb., (d) $P = 53.3$ ft. lb./s. or ~ 0.1 HP **NOTE:** Show all calculations in your solutions